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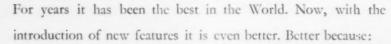
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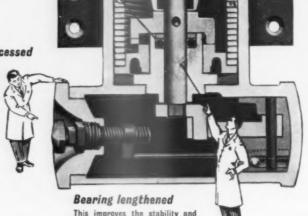


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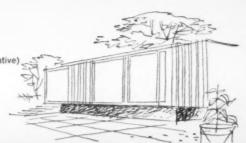
BRITON9

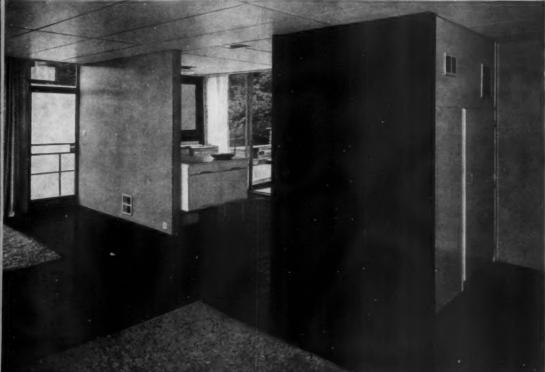
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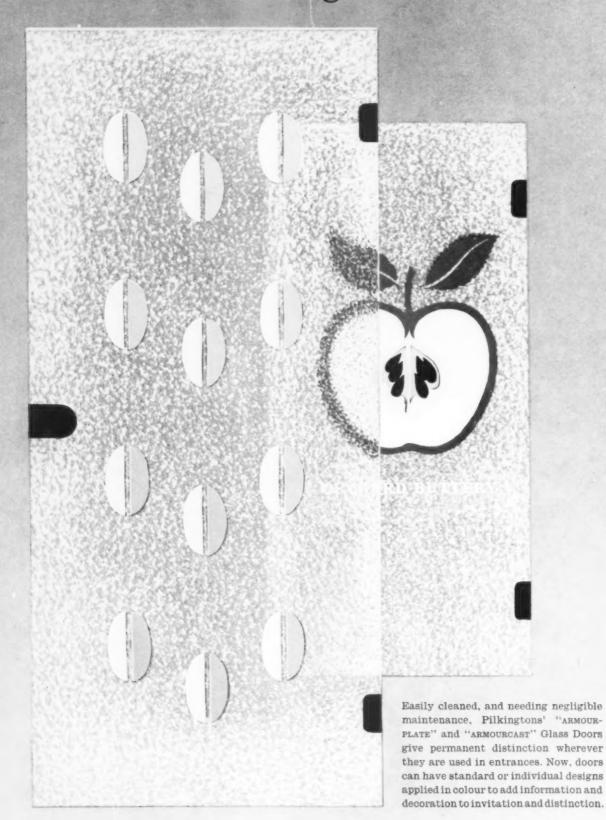
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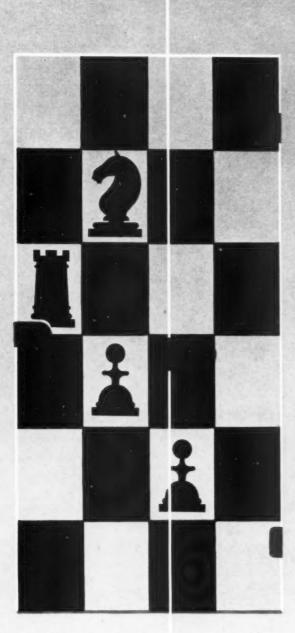
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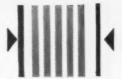
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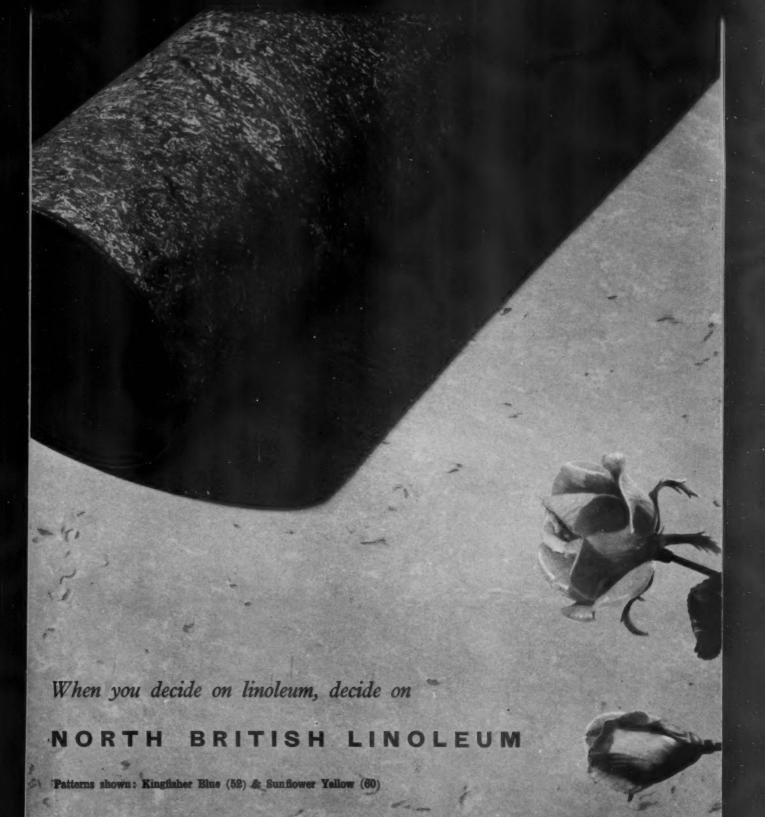


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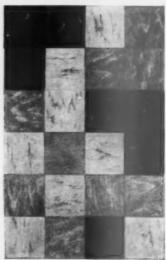
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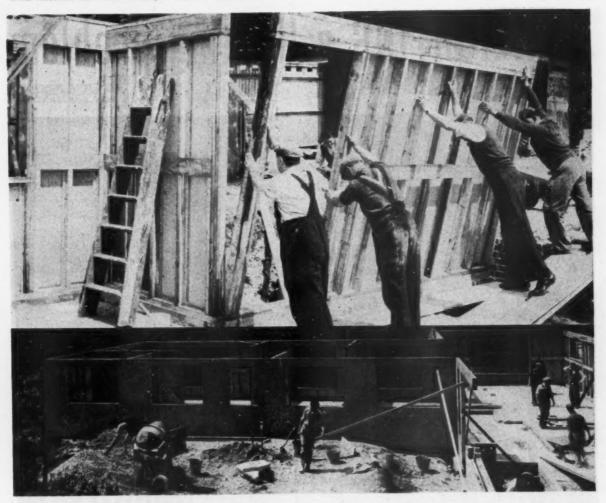
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Architects: Gollins, Melvin, Ward and Partners

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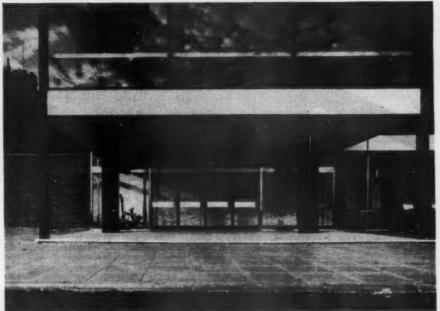
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for the Sheffield University Library to the instructions of the Architects: Messrs. Gollins, Melvin, Ward and Partners

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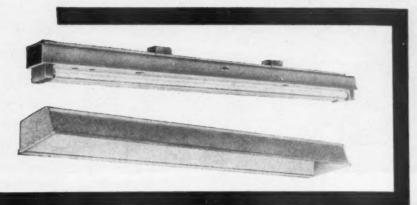
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ARCHITECIS: Gollins, Melvin, Ward & Partners



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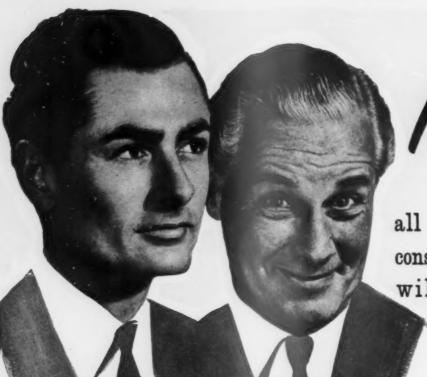
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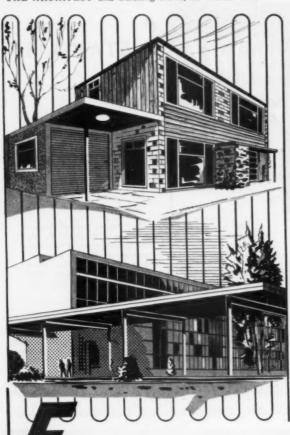
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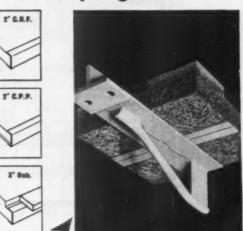
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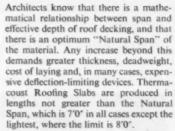
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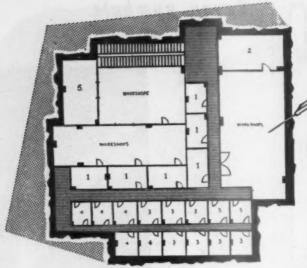
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#### PISTOLS: COFFEE FOR NO TWO

MR. TRENCH'S brilliant paper, given at the R.I.B.A. last evening and fully reported elsewhere in this issue, is the broadest analysis of future trends in the building industry and certainly it is the most outspoken, as far as Portland Place is concerned, that we have been privileged to hear.

Peter Trench is widely respected on all sides of the industry, and it can be taken as a measure of his real concern about the wellbeing of the industry's future that he should make, within the architects' stronghold, this most stimulating and thoughtful statement since he took up office as the director of the builders' national organization.

His call for joint education of the building team and the reappraisal of the time-honoured training of operatives are the most urgent aspects of the important matters he discusses, and ones which the Architect and Building News has commented on in this column from time to time.

The danger is of course that "the desperately urgent need to re-examine first principles" in the training of operatives will not be accepted soon enough by the unions, and this would result in the progressive lowering of the standard of entry as other more farseeing industries offered greater opportunities to the better educated school-leavers.

There is no time to lose in initiating a scientific research project into this matter and of the two alternatives for implementing it suggested by Mr. Trench the Building Research Station might be preferable to a university.

On the much discussed topic of joint education, Mr. Trench goes further than anyone else to date. But perhaps he is not quite fair in saying "the R.I.B.A. more than any other body is to blame for not taking more realistic action in this sphere". It is scarcely to blame, in our opinion.

Six years of war, in which thoughts about architecture were on the whole destructive rather than constructive, have been followed by a decade of revolution in the size and outlook of, and in the demands on, the profession. All this has had to be assimilated. and time was needed. But there have been great changes at Portland Place and there can be no excuse, now that the gauntlet has been thrown down.

The R.I.B.A. council might well begin by approaching the other official bodies of the building team with the object of setting up a group of professionals, paid to investigate and report on the needs of joint education. A real start might then be made with the completion of Sir David Eccles' London College of Building.

#### **EVENTS AND COMMENTS**

#### NEW SIGHTS OF LONDON

The London County Council has put on a neat and interesting little exhibition at the Ceylon Tea Centre. It follows that staged at the Building Centre a year or two ago and shows L.C.C. and private enterprise schemes in hand or projected which will still further change the face of London. It is a "Brave New World" kind of exhibition supported by a half-crown booklet explaining what marvels the L.C.C. is doing. booklet, like the exhibition, is intended for the layman (could it be the voter?). It contains a number of skilfully posed before-and-after shots showing the advantages of planned modern development over bombed sites and battered dustbins. The inference intended to be drawn is that children are so much happier in well-planned surroundings. This is the kind of thing that cannot be proved or disproved. My happiest memory is of playing in the excavated cellar of an uncompleted house, where I was not supposed to be. I admire the development work done by the L.C.C. tremendously, but I feel a little uncomfortable about the booklet.

The setting of the exhibition is good; you enter through imitation brick vaults and view many of the models through windows in them. Not all the models are to the same scale, and this requires some adjustment when fitting them into the general plan of London. The schemes for Marble Arch and Hyde Park Corner still seem to me to be pretty unsatisfactory. creation of large islands surrounded by swirling traffic and only accessible by subway cannot be right, although alternatives are not easy to think of. The great model of the Barbican scheme in this setting really hits you. This is a touch, and a big touch too, of the fantastic. Let us hope that it goes ahead. In model the scheme looks tremendously complicated and one wonders how easy, or difficult, it will be to find the way from A to B. Models and drawings of other great schemes, including the very tall buildings soon to rise on Millbank, are shown. Generally speaking, only those which can be said to be contributions to the pleasant sights of London are shown. What about a developers' exhibition showing all the kite-flying speculative schemes that are on the drawing board?

#### MODERN ARCHITECTURE AND THE BUILDING SOCIETIES

Speaking at the annual general meeting of the Abbey National Building Society, Mr. Stanley C. Ramsey, F.R.J.B.A., mentioned criticism of building societies generally for their attitude towards the design of houses on which they made advances. He quoted an important personage who had urged that building societies should give a positive lead in encouraging better designed houses and lay-out. In answer to this Mr. Ramsey pointed out that the Building Societies Association took part in the Central Panels Committee with the C.P.R.E., the R.I.B.A. and the I.O.B. The association was, he said, also represented on the House Builders' Registration Council. The chairman of the association was chairman of the council of the T.&C.P.A., to whose jubilee appeal the association had made a contribution of 500 guineas. Mr. Ramsey

hoped that these remarks might serve to demonstrate that building societies were aware of the public's interest in their attitude to questions of design. Later he said that as far as his own society was concerned he could confidently state that in his experience design and lay-out had never been so good. Modern estates were generally tastefully laid out, "and in this respect and in individual design the community's interests are increasingly considered and conserved," he said. There is very little, it seems to me, in all this to indicate that the attitude of building societies to modern architecture is changing for the better.

#### CAR PARKING AT THE CIVILS

Last year the British Road Federation put on a large exhibition of motor roads in towns at the Institution of Civil Engineers. I wrote this up at the time as an awful warning, for it contained pictures of, among other things, the great monuments of traffic engineering in the United States. Last week, Mr. Marples opened a second and equally large exhibition, organized by the same people in the same place, this time of car parking. The exhibition is a tremendous mine of information on every kind of garage and automatic car park. Once again the feeling is that, compared with other countries, we have done next to nothing about covered car parking accommodation. I believe that only one major multi-storey car park has been built in London since the war. There has been a great deal of talk about others of every conceivable type, but nothing is done. Mr. Marples, in a very witty speech, gave at least one reason why this is so. At a peak parking period recently he had a report on the accommodation vacant in London's major garages. It was found that one-third of their space was empty. Obviously, no one is going to build garages which would not be used—they will not be used as long as people can leave their cars around in the streets. Mr. Marples said that the Government was determined to keep the streets free of parked cars and would introduce legislation soon. Perhaps when parked cars are hounded off the streets the developers will turn a more favourable eye to car filing cabinets. Walking round this very interesting exhibition I heard some optimistic claims for parking and unparking cars in the various types of automatic and semi-automatic silo on show. The most pessimistic time given by anyone for rushhour conditions was ten minutes. This must be set against the gloomy stories from the States and elsewhere of breakdown and unparalleled jam. Some of the systems are certainly immensely complicated.

One eminent engineer I met thought that all motorists entering the Pink Zone should pay a special licence fee of £100 a year and that the money thus obtained should be used to build covered parking accommodation. He knew of a large garage built before the war at a cost of £120 per car which, even now, relies on sales of petrol to pay its way. Someone else told me that he knew of lock-up garages vacant in Kensington because people preferred to leave their cars in the street. He said that as many of the cars were owned by firms and were frequently replaced, no one minded much about deterioration. Mr. Marples admitted that before he was Minister of Transport he kept furniture in his garage and his car in the street, because parked cars prevented access to his garage whenever he wanted to use it. The exhibition remains open until March 26. admirable guide, which also serves as a reference book, has been specially published for the occasion.

ABNER

#### NEWS

#### Public Inquiry into North Barbican Purchases

A public inquiry to hear objections to the Minister of Housing and Local Government confirming the compulsory acquisition, by the City Corporation, of land forming part of the Barbican scheme was held last week before Mr. A. R. Chown, the Minister's Inspector. The order was made on July 23, 1959.

Land involved comprises 3:145 acres in the North Barbican area, and as the inquiry proceeded it became clear that if the Minister confirmed this order the acquisition of the remainder of the land necessary to complete Chamberlin, Powell & Bon's comprehensive scheme of redevelopment may be expected.

It was on November 11, 1959, that the Barbican scheme was approved in principle, said Mr. F. H. B. Layfield, counsel representing the City of London Corporation. In the development plan land comprising the scheme was zoned commercial and the change in zoning to commercial/residential had been formally proposed jointly by the L.C.C. and the City, in an application to the Minister on March 3 this year. Mr. Layfield explained that in the area of land involved in the compulsory purchase order, some 0.56 acres were covered by roads; 0.02 acres by damaged or vacant buildings; 1.534 acres (about half the site) was cleared; 1.04 acres were buildings standing and occupied. There were, Mr. Layfield went on to explain, 143 interests in the area, of which 30 were freeholders, and 113 lessees and occupiers. This showed the importance of comprehensive redevelopment of such an area. The Corporation had already spent a lot of money on the scheme, in fact some £330,000.

#### The Scheme

The Corporation thought it desirable, said Mr. Layfield, to acquire all land in the area to implement their scheme, work on which was expected to commence in the middle of 1961 and would take seven years to complete. the policy of the Corporation, wherever possible, to accommodate elsewhere in the City people who were dispossessed and they would not take possession of buildings until it was absolutely necessary. Murray House was the only building at present standing in the area of the compulsory purchase order which would remain in the final scheme after conversion into an hotel. Of the buildings in the area still standing none would be affected in the first year of building operations and only a few in the second year. Two of the objectors to the compulsory purchase order were the owners of public houses, but the Corporation were satisfied that they could find places for these two within the scheme. Another objection came from owners of a bank and this could also be included. A third objection came from the owners and lessees of a flatted factory.

#### Alternative Scheme

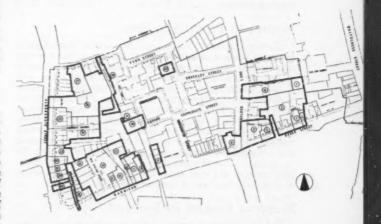
Mr. W. Scrivens, appearing for the interests of 96-100 Aldersgate Street (the flatted factory), produced a plan amending Mr. Chamberlin's scheme so that the factory could be retained. It was, he said, a modern building, finished, he thought, in 1938, and he thought it not beyond the bounds of possibility for it to be extended (as the lessees wished) and for the elevations to be dressed up to marry with Mr. Chamberlin's scheme. In crossexamination Mr. Chamberlin commented that this proposal had taken certain liberties with his firm's layout. (See elevation page 370.)

#### Reconstruction of Euston Station

Engineering and architectural consultants have been appointed to advise the L.C.C.'s Town Planning Com-



Chamberlin, Powell & Bon's scheme for the Barbican site. The area above the arrows is North Barbican, the subject of the compulsory purchase order inquiry reported on this page. Below is a map of the area, with objecto:s' sites shown in heavy dotted line



mittee regarding proposals involving the removal of the Great Hall in the scheme put forward by the British Transport Commission for the reconstruction of Euston Station. The Great Hall is on the statutory list of buildings of architectural and historic interest. The consultants are: J. E. G. Palmer, of Rendel, Palmer & Tritton; V. A. M. Robertson, of Sir William Hallerow & Partners; and Peter Shepheard, of Bridgewater & Shepheard.

Fees will be based on the scale fees of the Association of Consulting Engineers, and the total cost of the investigation is expected not to exceed £5,000, though the committee hopes that it may be less.

#### Hyde Park Corner to Marble Arch Improvement

The Town Planning Committee of the L.C.C. have accepted the tender of Holland & Hannen and Cubitts (Gt. Britain) Ltd., Westminster, amounting to £3,000,069, for all the road and tunnelling work for this improvement. The tender was submitted jointly with Fitzpatrick & Son (Contractors) Ltd., Poplar, and Lehane, Mackenzie & Shand Ltd., Matlock, Derbyshire. The acceptance is subject to the formal approval of the Minister of Transport. Work is expected to begin on May 1, 1960, and will take 28 months to complete. The estimated total cost of the whole scheme is £5,380,000.



A scheme by F. M. Cashmore, F.R.I.B.A., produced at the Barbican inquiry to show how 96-100 Aldersgate Street could be extended to fit into the Barbican scheme

#### Gorbals Redevelopment Approved

Glasgow Corporation has now approved Basil Spence's plan for the Gorbals redevelopment. Twenty-storey housing blocks will form the major "spine" of the scheme, which is the first of 29 such programmes planned for Glasgow. The blocks of multi-storey flats will dominate the new area and will be landscaped all round by gardens with shopping facilities, offices, public buildings, an assembly hall and similar facilities. The 400 houses will house 1.250 residents and will give access from three main staircase towers, each containing two lifts. The blocks will be all electric and will include underfloor heating in the living rooms. Each tower of twenty storeys will be raised on pilotis or stilts, giving public access below the buildings. Work will begin on this development during the coming summer.

#### Siporex in Production Here

Costain Concrete Co. Ltd., of Newarthill, Lanarkshire, began production in mid-March of Siporex. This Swedish material has been used extensively for constructional work in Scandinavia, and Costain have been granted the sole manufacturing rights in the U.K. and Ireland. A church at Gracemount, Edinburgh, will be the first building to have Siporex in its construction. Other uses proposed are at Cumbernauld, on multi-storey flats at Glasgow and on technical colleges at Paisley and Dundee. Costain will have an initial labour force of 50 men on this material and anticipate expansion of this labour force to 500. It is claimed that Siporex is as light as wood, non-inflammable, and that it can be nailed, cut, sawn, drilled or otherwise handled by normal building tools.

#### Shopping Centres in Scotland

The first shopping centre in Glasgow to be undertaken by private finance will be at Drumchapel, where Leslie & Co. Ltd. are to build a 100 shop and store landscape centre to serve this 40,000 population suburb of the city. Work will begin in April and will be completed within 18 months. Maximum scope will be given for undercover shopping. Leslie & Co. are also building a new shopping centre at Mastrick, Aberdeen, involving 21 shops and a chain store, again on precinct lines, with pedestrian courts and landscape surroundings. This centre is being built for Arnlae (Scotland) Ltd. and work is to begin soon on this project. The same contractors have received instructions from House of Fraser for the new four-storey departmental store which will stretch from St. Enoch Square, along Argyle Street and down Jamaica Street. Demolition work is proceeding and construction will start thereafter.

#### New Chairman, Cockade Ltd.

Sir Gordon Russell, who recently retired from the directorship of the Council of Industrial Design, is to join the board of Cockade Ltd., as chairman, next month.

#### Roxburgh County Buildings Competition

Roxburgh County Council has announced its intention to hold a competition for the design of their new county buildings at Newton St. Boswells. Premiums will be 500gn, 300gn and 200gn. More information will be available in a later issue.

#### Travel Grant to Brazil

A travel grant, or grants, from the trustees of the Leverhulme Foundation has been offered to British architects to enable the holder to work for a period of at least a year on the planning or building of the new federal capital of Brazil. Applications are also invited from students who have passed the R.I.B.A. Final Examination, Parts I and 2 (or have been exempted from them) and who have at least two years' practical experience.

Applicants, between the ages of 21 and 35, should be keen to visit Brazil, and able to spend a minimum of twelve months there in travel, study and practical work. They will work in the planning office at Rio de Janeiro (under the direction of Lucio Costa) or the site office at Brazilia (under the direction of Oscar Niemeyer), or both.

A normal salary will be paid in Brazilian cruzeiros, but as salary scales in Brazil for work of this kind are comparatively low, awards of approximately £1,000 are being offered to supplement this salary and to allow for additional travel expenses as well. Married applicants are not barred; but the award is not intended to cover the total expenses of two people.

Although a few officers of NOVACAP (the New Town Corporation) can speak English, the holder of the award will have to acquire a rough working knowledge of Brazilian Portuguese in order to make his way round the office and understand drawings, notices, etc.

In order to be considered for this award, applicants should write a letter, in type or manuscript, to the secretary, Royal Institute of British Architects, 66 Portland Place, London, W.1, to reach him on or before March 28, 1960, marking the envelope, Leverhulme Travel Grant.

In this letter the applicant should state: (a) why he is particularly interested in going to Brazil and working on the plans or designs for the federal capital. (A short paragraph will suffice, and it should not in any case be longer than two hundred words.)

(b) His age, qualifications, experience and special interests.

(c) Brief particulars of any prizes or other awards gained; the title of any thesis he has produced, writings he has published; or buildings he has designed.

(d) His willingness to travel to Brazil as soon as possible after April 30, 1960, and not later than the end of October, 1960.

(e) The names of three referees from whom inquiries could be made about the applicant's character and professional abilities, one of whom should not be an architect.

Parking garage, "Grottenau", Augsburg, Germany, on show at the "Car Park" Exhibition. See Abner's note



#### LOOKING AHEAD AT THE BUILDING INDUSTRY

This article is a full report of the important paper presented to the R.I.B.A. yesterday by PETER TRENCH, O.B.E., T.D., B.SC., F.I.O.B., the director of the National Federation of Building Trades Employers

IT would be ridiculous to believe that the future structure of the building industry will not be influenced by matters quite outside the control of the industry itself, and it would be just as ridiculous to believe that these external forces are at all predictable with any accuracy.

The "future" itself needs defining, for tomorrow is the future and so is the Millenium: in fact I am confining myself to some 50 years. I do this for two reasons. First, because it is a useful cycle of time over which trends may be established and secondly, unless some quite extraordinary medical development takes place, it is extremely unlikely that in 50 years' time I shall be here to be proved wrong!

The influence of political economy more than anything else is likely to shape the building industry of the future, and if I seem to take up a great deal of time on this it is only because I believe that that this influence, together possibly with a change in education philosophy, rather than design, technical, trade union or any other influence, is likely to be the greatest factor contributing to our industrial evolution during the next half century.

#### **Economic Considerations**

"Ceteris paribus"—a Roman economist's phrase meaning "Don't tie me down to this, old boy"—ceteris paribus, it would seem that there are two reasonably basic assumptions for the future. First, that our population is likely to increase out of proportion to our natural resources, and, secondly, that our rate of expansion is likely to be dependent on our ability to sell—not here—but abroad. On a further assumption that despite the very real likelihood of being able to choose the sex of our future generations there is little likelihood of producing a number of supermen, then our future prosperity depends on better education and training in the broadest sense on the one hand, and technical advances on the other.

One thing is quite certain from these assumptions, viz. that our resources will never be really adequate to afford the luxury of waste, whether it be manpower, raw materials or brains. Nor in the years to come will we be able to stand aloof in our island fastness, basing our independence on the glories of Empire. With the rise to top world status of China over the next 50 years, with Russia looking quizzically over her shoulder and the U.S.A. busy courting her northern and southern neighbours; with all of them watching keenly and vying for the development of the under-developed, a tremendous amount will depend on the unification and economic and political stability of Europe. And as sure as eggs are eggs we will not be able to contract out of our European responsibilities.

The somewhat disparaging description of the building industry as a "sheltered industry" is unlikely to apply by the end of this century. If the building owner in 50 years time will be able to get a better building from a German architect-cum-engineer, or even from a German building firm, patriotism is unlikely to prevent him from doing so.

#### Political Considerations

Politics, of course, cannot be excluded from these considerations. During the 50's the world, including Russia, swung politically to the right. What of the political future? If we were to assume a check, and even a long term reversal of present trends so that the pendulum swung back to the left, then we might envisage the building industry split down the middle, with the majority of work carried out by public or local authorities, perhaps

by means of their own direct labour organizations. leaving a minority residue carried out by private enterprise and a dwindling number of larger contractors. This, however, I believe to be a false political assumption, and only if we fail economically will we be faced with a structure such as this. A rising standard of living, full employment, coupled with an educational and training revolution which I believe we shall see during the next 50 years, will favour the right and centre parties, and although all political thought is likely to be progressive in the sense that all political parties will accept a high minimum standard of social responsibility, I do not think we are likely to see the advent here of a true Socialist State. A probable lessening of international tensions with the resulting economic impact of disarmament gives added strength to this assumption.

#### The Industrialization of Building

Few industries have achieved their end product in conditions so conducive to waste as building: some of those conditions are of its own making, but others are the result of working in the open with a constantly changing labour force. It has been estimated, for example, that the loss of output each year from bad weather alone is equivalent to a permanent loss to the industry of a labour force of 50,000. Many of the traditional building processes are wasteful in the extreme. Inefficiency and poor production are two more factors which contribute to waste. The country cannot afford this waste now and, as I have tried to emphasize earlier, it will certainly not be able to afford it in the years to come. The antidotes are already emerging—better training, increased managerial skill, mechanization and prefabrication or off-site preparation—they are being forced on us by the external influence of economics, and the trend will continue.

The trend towards the industrialization of building. made inevitable by high site costs and low output, will in itself give full scope to the increasing use of new management techniques, such as planning, work study and incentive schemes, for these are more capable of fulfilment in the factory conditions of pre-assembly and the mechanized site than they are with today's building processes. It has been computed that 40,000 concrete mixers are in use on sites at any one time and in many cases turning out concrete for placing in formwork fabricated under site conditions. It is well worth considering the saving in men and materials (although not necessarily in money) by the use of ready mixed concrete, scientifically mixed and controlled at a central depot and poured into formwork prepared off-site, or alternatively, the use of pre-cast and possibly prestressed concrete units fabricated under factory conditions. Such trends towards the reduction of waste in men and materials cannot be sustained, however, unless the relative costs are favourable and designers and erectors are themselves prepared to experiment in this direction. We have only recently arrived at a stage where the cost of site labour on a normal building job has made large scale mechanization an economic proposition, not only because it has led to a reduction in overall costs, but because the whole building process has been speeded up, with the indirect savings that go with getting a building into production at the earliest possible moment. The growing understanding of the economics of fast building will, no doubt, contribute directly to the trend towards industrialization.

I foresee, therefore, a larger volume of work being carried out by a smaller site labour force, mechanized and competently directed, and using a small number of prepared components. In case this should be misinter-

#### LOOKING AHEAD AT THE BUILDING INDUSTRY

preted as a forecast of redundancy let me make it clear that I see no reason to belive that the total manpower servicing the industry will be altered, but its distribution and emphasis will change and its volume of output will increase. Such a glittering future has some very important pre-requisites, however! Better education and training in every department is one.

#### General Education and Training

It is not known, of course, how much of the Crowther Report will be adopted, or when, but over the next half-century certain main principles are likely to be established. First, the school leaving age will be progressively increased. Secondly, some form of post-school education and training will become obligatory, and thirdly, the status of the teaching profession itself is likely to receive the recognition which is its due. The sum total of this must be that those entering the professions, industry and commerce will be better educated than in the past, and as such their choice of careers will be influenced by the opportunities open to them by those competing for their services.

#### Management Recruitment

To their credit, some progressive thinking builders have become aware of this fact and, anyhow on the management side, are setting their sights at new levels both in attracting and training recruits. In consequence, although everything in the garden is by no means lovely, I have little doubt that on the production side of the industry there is likely to be a rapid increase in managerial efficiency (and here I include site supervision) and with the recently revised examination syllabus of the Institute of Builders the first steps have already been taken to secure the future.

#### Recruitment of Operatives

But what of the recruitment, education and training of those members of the industry, now numbering over a million, who carry out the work on building sites? Here I am anything but happy about the future. I believe there is a desperately urgent need to re-examine first principles. First, concerning the attractiveness of the industry and, secondly, concerning the training of those entering it. I will say no more about attraction than that this is not merely a question of financial reward, it concerns working conditions, ladders of promotion, reward for merit, and a tremendous job of public relations. This is a paper in itself, but I am concerned that if we are unable to raise the status of the whole industry in the eyes of the general public, the changes that many of us would like to see will be very slow in coming about.

On the training of our operatives I would say this. We have accepted the craft principle for a thousand years and more, we have accepted the sole division of craftsmen and labourer, we have accepted that the training of a bricklayer and the training of a painter require similar periods of We have accepted the unscalable barriers between the crafts. We have accepted many other principleswithout question. I suggest that the time has come to question those principles and to look at the real requirements of the next 50 years. What skills will we need to carry out new work and maintain the old? How much time can be afforded to train young men in building circular Elizabethan chimney breasts and rubbed brick arches? Is there a need for a multi-skilled operative? What of those men whose manual dexterity or craft skill is less than the so-called craftsman but who is responsible for an expensive machine and whose contribution to the financial success of a job is greater? These questions must be answered, and the sooner the better. How can this be done? First, there must be a reassessment of user requirement, or in other words, an industrial job evaluation to establish the

varying skills and degree of skill and responsibility required by the building industry of the future: secondly, training programmes must be devised to cater for these skills, and lastly, the barriers of demarcation must be broken down. This is probably one of the most difficult problems facing the industry, and in particular the trade union movement. It must be met with courage if we are to compete for our fair share of manpower and make our rightful contribution to the national economic well-being. It requires in the first place an agreement by employers and unions that a scientific research project should be initiated by one of the universities or the Building Research Station—probably requiring several years for completion—so that the true requirements of the industry may be established.

If, and only if this is accomplished, will we see the base of our industrial triangle firmly established. For, as I have already said, over the next 50 years the true pattern of the industry should be a smaller but better trained and a better paid labour force, organized by more efficient management, carrying out a greater volume of work than now. Only in this way can this tremendous industry play the part demanded of it in the economy of the future.

#### Size and Scope of Building Firms

What of building firms themselves? Recent trends have shown a reduction of the overall number of building firms and an increase in the larger units. surprising since the industry has been sorting itself out from its post-war mushroom growth. But will it continue? I find my crystal ball a little hazy on this, and any answer must be hedged around with "ifs". If we proceed in a series of minor financial crises interspersed with boom conditions, and this I believe to be very possible, for although we have learned how to avoid the long pre-war trade cycles we have not learned how to achieve stability, then I fear for the medium-size building company. Unless such a company can put aside sufficient in the bright times to tide it over the not-so-bright, I think it will see its bread and butter taken from it in times of recession by the larger firm coming into its area and zone of This larger firm, more and more with its own influence. cheap and efficient patented construction system prepared off-site will, in times of stress, break into that part of the market which normally it would not wish to touch. Unhappily for them, the medium firms are not always able to take one step down and break into the jobbing and maintenance market, for here, not only will their overheads and organization not allow them to compete economically, but the small local jobbing builder is firmly and often unshakeably ensconced. The advantage that the small local man has over others is not always realized. Such advantages include a comparatively low overhead, and a small but permanent labour force often unbedevilled by such complexities as demarcation and special rates. In building, the builder goes to the job-the job cannot be brought to him so, like garages and filling stations, geography and convenience play a big part in keeping a number of small firms in existence. It must be remembered, too, that in the latest figures of the total of £2,200 million of construction work, £460 million was in repair and maintenance, a proportion which must be kept in mind when talking of new skills and the future. There is no reason to believe that this proportion is likely to reduce, nor is there any reason to believe that the structure of that part of the industry responsible for it is likely to show any revolutionary changes.

Again certain other "ifs" over the next half century could see the advent of the large regional builder as opposed to the London national contractor. For this, much depends on the willing mobility of labour, communications and the whole spread of urbanization, but it is not impossible. on economic grounds alone, to envisage a regional (50 mile radius) concentration with a more stable, mechanized, and technically equipped labour force. The alternatives to this are the growth of the large regional subcontractors or, what is more likely, the

taking over by national contractors of strategically placed

medium size firms on a regional basis.

The structure within firms has altered quite considerably in the post-war years. The employment of design staff is not new, but there is every reason to believe that this practice has grown of late. I have little hesitation in saying that in the years to come architects with the necessary qualifications will take their place alongside engineers on the boards of building companies. Moreover, this move should be welcome for at least two reasons. First, I anticipate that a limited number of building owners will continue to deal direct with building companies and this in itself justifies top level representation of men trained in design; men who round the boardroom table can influence colleagues concerned mainly with production. Secondly, with the continuing trend towards negotiated contracts the extent of the contribution that a builder can make at the design stage is commensurate with the calibre and training of his staff. Here again I consider the future architect has a role to play at board level.

#### The Contract System

Let me now launch straight into the anathema and dilemma of architects, the packaged contract. this has emerged for two simple reasons. First, the builder has found that he has a less frustrating and more profitable life under this system of contract, for by controlling design and construction and the flow of information required for production he is enabled to function more efficiently, thereby facilitating an adequate profit and, secondly, for sheer speed from conception to completion, some building owners are persuaded that this is a better method than the generally accepted one of competitive tender. I might add that, heretical as it may sound, to many building owners the fact that the building may suffer aesthetically is of no great importance provided it functions well, and moreover the fact that by spurning competition theoretically he might pay a bit over the odds does not matter to him provided the finishing price is within his budget and he gets his building on time-two phenomena generally capable of fulfilment by a competent building firm given full control of the project.

The dilemma, of course, is that in insisting on a competitive tender system which is frustrating and unprofitable to the builder, the architect has put a noose round his own neck, for he has driven builders, anyhow the larger ones, into producing more remunerative and less frustrating ways of doing work. He has done this without being able to find a competitive alternative where the interests of

all parties coincide.

The packaged deal, the consortia of architect, quantity surveyor and builder, the negotiated contract will all have their place in the future, as will, no doubt, the growing civil engineering trend towards competition on a basis of design and erect. Two factors may well influence these trends: first joint education, about which I shall say something pretty pungent in a minute and, secondly, budgetary control, by which I mean the possibility not only of planning a building within given limits of expenditure, but the capacity to control building costs so that the limits are not exceeded.

The degree to which contracts are carried out by these means will depend on the competence of the independent architect on the one hand and the real, not fictitious, contribution which a builder can make if brought in at the design stage on the other. I do not wish to be side-tracked on the question of professionalism and in particular the professional builder, but I am inclined to believe that with better education and a higher calibre of entry into building firms the need for independent watchdogs of high moral standing is likely to decrease rather than increase.

It would be foolish to think, however, that we are likely to see the demise of the competitive tendering system. After all, the local authority and publicly employed architect, even if he does so against his better judgment, is generally forced to go out to competition. He is

sitting fairly firmly in the saddle, both now and in the future: no packaged deal for him and no noose round his neck, and is he not responsible for a large proportion of the building work of the country? His lords and masters will, by tradition, statute and regulation continue in many cases to force him to put numbers of builders into competition. The glimmer of hope here is the growing official realization at Treasury level of the need for long-term budgeting and financial allocation for building programmes: with such a state of affairs it will be possible for public and local authorities really to provide documentation to a limited number of tenderers in such a way that sane and intelligent pricing will result, the estimator knowing that the chance of extras will be few, if any. Estimating itself, influenced by the growing collection of work values and feed-back of costs will assuredly become more scientific in the years to come. Alas, scientific estimating based on historical costs in itself does not ensure obtaining the contract, in fact it might result in never obtaining a contract at all, and the man who goes in at less than cost, will no doubt, live to fight another day. His days, I submit, are however, strictly limited by the competence of the architectural profession itself.

#### The Quantity Surveyor

Time precludes me from making more than a passing reference to the surveyor (or for that matter the consultant) but he himself must feel that he has played himself into a permanent place in the first eleven. As to the future, here I would only comment that in my opinion the emphasis in quantity surveyors' offices may well change from bills of quantities to cost consultancy.

#### The Role of the Architect

As for the structure of the architectural profession this is a very different matter. Unlike some people, I am fairly convinced of two things, first that the problems confronting the architectural profession are rivalled in their complexity only by those confronting the trade unions, and secondly that a scientific analysis of these problems and a bold decision to shape long term policy is of vital importance, not only to the profession itself, but to the well being of the industry as a whole. Having said that I will add that what I have heard of the Oxford Conference, and subsequent evidence, the R.I.B.A. is fully

aware of its responsibility in this matter.

Here I must refer to that thought provoking paper of Mr. W. A. Allen, "The Profession in Contemporary Society", given here on March 8. I go with him much of the way, but at one point our paths diverge to some extent—it is when he starts to develop this thesis on the architectural profession itself. "It seems to me", he says, "that our greatest difficulties spring from the fact that we have to be at once artists, planners, technologists and He continues a little later: "It men of business . . is occasionally said that we try to encompass too much, but to concede this would be to accept that the practice of architecture itself has become impracticable." He denies that this is so, provided that the quality of entrant and his training is sufficiently high. I beg to differ with my good friend Bill Allen, anyhow, on a matter of degree. The practice of architecture in his contex and as it is envisaged today, if it has not already become so, will shortly become impracticable of achievement. If the architect of the future attempts all the functions at present attributed to him, great architecture and efficient building will be a matter of luck. In hushed tones, therefore, say the architectural profession is trying to do too much in its eagerness to retain its leadership. It is, in fact, taking upon itself responsibilities which do not rightly belong to it in modern times, and its future to my mind depends on its shedding some rather than attracting more. There are but few who can combine the qualities of artist and leader, or the qualities of artist and business man; there are many who can combine the qualities of artist and technologist; there are indeed large architectural partnerships where all these qualities are to be found

#### LOOKING AHEAD AT THE BUILDING INDUSTRY

among the partners combined, but what hope has the individual of assimilating the knowledge and gaining the experience at present demanded for six per cent. then required of the average architect in an industrialized building industry? Above all he must be a technologist and on the design side he must be as intimately concerned with the design of the component parts that go to make the building, as in the building itself, and to retain his place as leader he must not try to do everybody else's job but essentially he must have powers of decision, communication and co-ordination. How I agree with W. A. Allen when he says in his paper: "A good building is a single organic embodiment of all its technical functions, its planning requirements and its aesthetic idea: it requires policy level thinking about each aspect in order to get it organized properly from the outset. We require therefore neither a mere acquaintance with these techniques, nor yet a full-blown computational familiarity, but the basis for sound policy decisions about design and this often involves not engineering alone, but economic, industrial, and human parameters." Many buildings will become more not less complex in the years to come and the good architect, by accepting the limitations of his own knowledge, will be the one who knows when to seek advice from others and how to use that advice when obtained. If he attempts in his training really to master such subjects as engineering, estimating, costing and production management, to name but a few, he is attempting the impossible; these are the spheres of the consultant, the quantity surveyor and the builder, by no means forbidden spheres but where the combined expertize required is quantitatively beyond the capacity of most men.

Whether the architect of the future remains independent of the building owner, whether he is employed on the staff of the building owner-and that building owner may be a government department, a local authority or a private concern-whether he finds himself as a principal in a building company, I suggest the above considerations What then is his chance of leadership? Superior intellect or knowledge and a professional status will be insufficient by themselves to ensure the architect's position in future society, and by surrounding himself with a mystique of aesthetics he will lose, not gain, the confidence of the building public: without that confidence the chance of leadership will disappear for ever. To gain it he must show that he is capable of leading a team which can produce in time and at a predetermined price a building that looks well, functions well and is well built. If he can't, then he must not be surprised if the public turn elsewhere, and for the answer to this he must look at his

present training.

But no good will ever come from builders disparaging architects and vice versa: accusations of incompetence on the one hand and roguery on the other can only do a disservice to the industry as a whole at a time when jointly we should be seeking the goodwill of those who give us our bread and butter.

#### Joint Education

Such forebodings have been disposed of in the past, but it is my duty this evening to look at the future and here I put my money in 50 years on joint education and post-graduate specialization. And by "joint" I mean courses common and shared by builder, engineer, architect and quantity surveyor, not a college with separate faculties and a joint meeting of the clans for an occasional subject or a glass of coffe in the refectory, but three years' common grind, followed by two years' specialization—then out into the cold world or a further two years of post-graduate study.

The elaboration of this somewhat bald statement is again a paper in itself, but it is not put forward without quite a deal of thought and is, I believe, not an unrealistic

approach to the 50 year future. The three- and five-year break clauses permit a sorting out by the students themselves as well as by those in charge of their education, and they will, above all, produce the interchangeability and understanding so essential to the future. The seven-year end-product will be the potentially great architect of the future, a man trained to design and lead. There will be few of them, and it will be to them—the architects—to whom would-be owners of fine buildings will turn for guidance. The five-year product will work for the architects or they will go into building firms where they will take their rightful place according to their skill and responsibility. Some of them, of course, will always find a home in the smaller practice which does not aspire to tackling the large and complex building project.

If I am anywhere near the target in this crystal gazing, design and production will be co-ordinated in some cases and integrated in others. The designer will have on his staff men who understand production and who will supervise the project at the letting of the contract: the builder, or erector of buildings, will have on his staff men trained with a fundamental knowledge of design. There is every reason to believe that in an industry based on this type of organization there would be an interchange of staff

between architect and builder.

Is there a place in this structure for those whose interest is art alone? Should there be a class whose responsibilities are limited to design? I think this is possible in the same way as the painter and the sculpture will continue to contribute to building. Such a designer might well work in conjunction with building firms on a particular project but preserve his independence on a consultant basis. Let us make no bones about it, however, he is not the architect of the future for he is solely an artist and the future architect cannot afford solely to be an artist.

Perhaps of all the points made so far the one I would like to emphasize most is the educational one of joint training. Again at the price of being unpopular I say that the R.I.B.A. more than any other body is to blame for not taking more realistic action in this sphere. The lip service paid to joint education in architectural circles and the failure really to face up to it has led me and possibly others to the conclusion that it is the belief of the architectural profession that they will be the losers by such a move and that it can best be resisted by inactivity.

What are the true reasons for the shyness of the profession's official body in this matter? Is it because they do not think joint education necessary? Is it because they do not know how to set about it? Is it because those in charge of architectural education believe that they personally would be the losers by such a move? Is it the vested interest of architectural schools in the status quo? Is it because deep down there is a feeling that there will be a loss of status or caste and a debasing of the architectural coinage? Or is it simply a belief in the inevitability of gradualness and a hope that "things will sort them-

selves out if left alone"?

These are dangerous and I suggest short-sighted concepts for, if my thesis is right, the future of the profession will be in jeopardy unless it accepts the fact that efficiency will result only from an analysis of the requirements of the industry, and a policy of training to meet those requirements. I have, in this paper, attempted to analyse these requirements over the next 50 years, first from the point of those who assemble the hundreds of thousands of components that go to make a building and, secondly, from the point of view of those who design and organize the erection. The time has come when such analyses should be carried out, not by amateurs like me, but by a research body, aided by all sections of the industry. Such analyses take time and time is not on our side, and since particularly it is not on the side of the architects, I would suggest that really urgent action be taken to give an honest look at joint education, for as I have said earlier, the future structure of the industry depends on economics and education; only the latter is within the industry's own control.



Photos: HENK SNOEK

A night shot, taken from the park, shows the main reading room with book store tiers beyond

#### LIBRARY FOR SHEFFIELD UNIVERSITY

Architects: GOLLINS, MELVIN, WARD and PARTNERS

Assistant Architects: M. LITCHFIELD, B. J. MAYES, H. PRIME

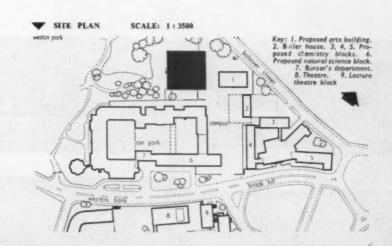
Quantity Surveyors: DAVIS, BELFIELD, and EVEREST

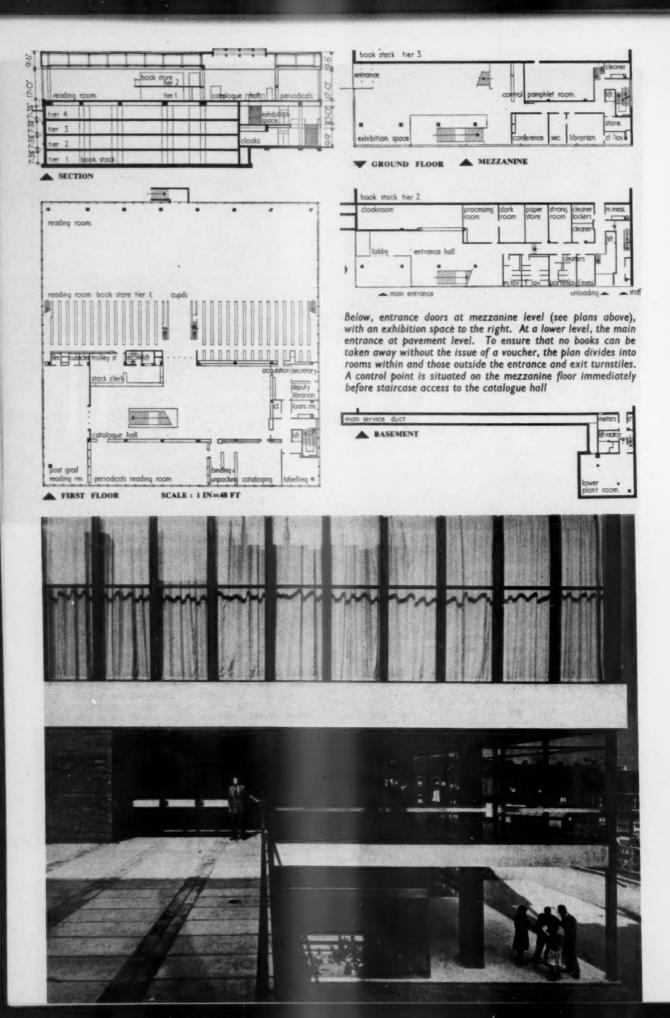
Structural Engineer: W. V. ZINN

Heating and Ventilating Engineers: G. N. HADEN & SONS LTD.

Electrical Engineer: H. B. LEIGHTON

A new library for Sheffield University is the outcome of an open competition promoted in 1953 (A. & B. N., 3.12.53) for the design of central areas in an expanding university. (Other developments may be related to the library in a site plan to the right.) Designed to house a million books, this precise piece of architecture sits happily within its environment (see photo on page 378) to prove, once again, that quality and not style can create harmony





# LIBRARY FOR SHEFFIELD UNIVERSITY

THE site for the library is a corner of Weston Park which the city corporation made available for the university; it is roughly 160ft sq immediately to the north-east of the existing university buildings with a fall in level of some 20ft from west to east.

### Exterior Planning

The library is planned in the form of a square with each side 155ft long and 52ft high on the east or campus side and 32ft high on the west or park side. This siting of the library and its planning as a low square building has been chosen to allow it to act as a foil to the 17-storey arts department block on which constructional work is to start early in 1961 and to the long, low chemistry block which forms the east boundary of the campus and which is already under construction.

### Interior Planning

To ensure that no books can be taken away from the library without the issue of a voucher, the plan divides into the rooms within and those outside the entrance and exit turnstiles. Within the control lie all the rooms to which readers normally have access and which are ap-proached from the centrally placed catalogue hall. In the catalogue hall are the card index catalogue cabinets, shelving for bibliographical and standard books of reference and the combined issue desk and voucher counter. Also within the control lie the main reading room and the two smaller reading rooms for post-graduates and current periodicals, access to all three being from the catalogue hall.

At the back of the main reading room, which has 76 tables and 280 readers, and immediately alongside the entrance, is a two-tiered, open-stack book store, holding approximately 130,000 volumes. In the post-graduate reading room there are 12 tables each for four readers, three microfilm cubicles and 55 private

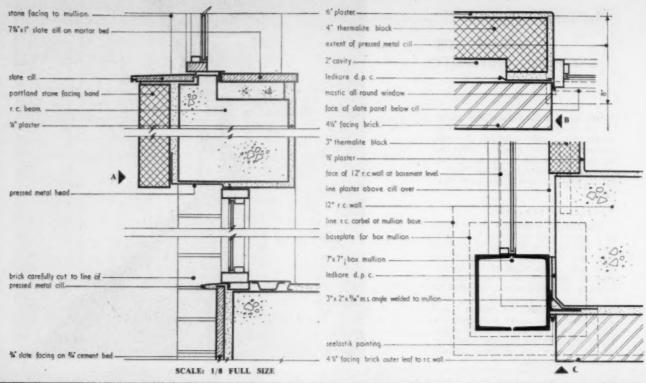
book lockers.

Outside the control on the ground floor are student cloakrooms, lavatories and service rooms; on the mezzanine, the librarian's, secretaries' and committee rooms, and on the main floor the principal working rooms (cataloguing and new aquisition rooms), and the binding and unpacking rooms. These rooms, although on the same floor as the reading rooms, can also be approached by a secondary non-controlled staircase having immediate access to the goods lift and the covered unloading

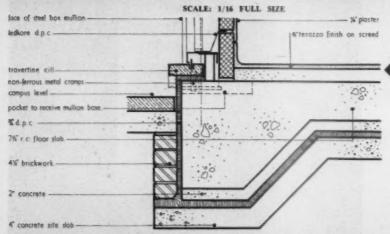


Two of the most important viewpoints on any library. Above, a corner of the main reading room with open access book store tiers. Below, part of the closed access book stacks which form a solid core to the building on four tiers (see section on facing page)

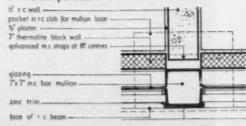








On this page are shown a number of key points in the structure. Top, three details of the north wall. A. Section at first-floor level adjacent to the secondary staircase (see plan on page 376). B. Junction: staircase windows to brick plinth. C. Junction: box mullion to brick plinth. Left, plinth detail on the main entrance facade. Below, junction box mullion to internal partition



THE ARCHITECT and Building News, 23 March 1960

bay. On the second floor lie the staff rest rooms.

The book stack, which has accommodation for 870,000 books on four tiers, lies immediately under the main reading room. Access to the stack, however, except for a small area on the top tier which is available for future extension of the reading room book store, is used only by the librarian's staff and as such is not readily accessible to readers.

### Construction

The construction of the basement stack and the floors below the main reading room floor is in reinforced concrete. The floors in the book stack are in plate construction with no beams and each floor carries the book shelves of that particular tier only. This particular construction was selected in preference to the more usual type of steel stack, partly on account of the fire regulations and partly as the stack is largely below ground; the floors could act as buttresses to the perimeter retaining walls. The upper part of the building is framed with steel with 8ft deep lattice girders spanning the 80ft width of the main reading room. Externally the horizontal bands above and below the principal floor are faced in Portland stone. The non-structural steel mullions forming the window wall are faced externally with black painted aluminium and the principal window mullions to the ground and mezzanine floors on the campus elevation are box section steel pillars. The north, south and west façades below the main floor level are faced with dark blue-brown bricks.

Continued on page 384

# LIBRARY FOR SHEFFIELD UNIVERSITY

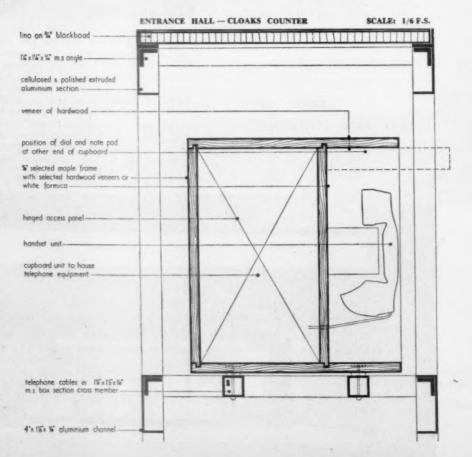


Standing at pavement level one sees the main entrance doors, while a look upwards shows the corner detail. The structure separates into two elements. Below the main reading room floor (expressed by the narrow horizontal in stone); it is of reinforced concrete. Above, a framework of steel gives large spans with open planning, while an 8ft deep roof space, within which lattice beams are placed, gives accommodation for large air-conditioning ducts





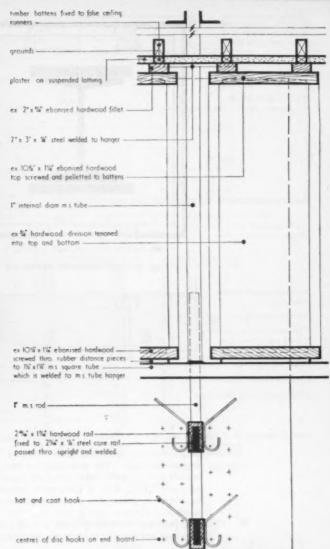
Above, another shot of the entrance hall, this time seen at night. Here a progression in circulation may be seen clearly in one view. From the main entrance hall at campus level, with cloaks space at the rear; on to the exhibition space and control counter at mezzanine level; to finish in the catalogue hall and reading rooms at first floor. The cloaks counter is detailed on the right. This should be related to further photographs and detail shown on the facing page





## LIBRARY FOR SHEFFIELD UNIVERSITY

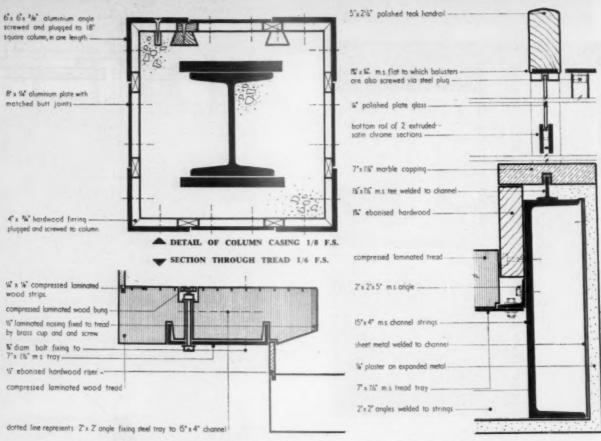
Above, looking back to the lobby from the entrance hall, and below, the cloaks space. Detail to fittings in the cloaks space is shown on the facing page and right. Rectangular metal framing to the counter is painted dark blue-grey, while woodwork is veneered in macassar ebony



ENTRANCE HALL - CLOAKS SPACE

SCALE: 1/8 F.S.



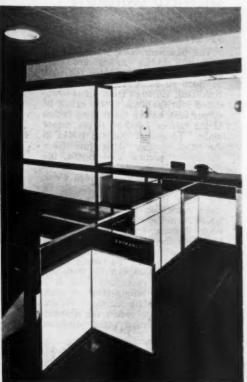


Below, looking down the main staircase from mezzanine level. The staircase has noir vein marble strings, dark brown laminated treads and ebonized risers, with a plate-glass balustrade held in silver bronze rails capped by a mahogany handrail. Column casings are cellulosed dark blue-grey and the ceiling white fibrous plaster. Staircase and encased columns are detailed above

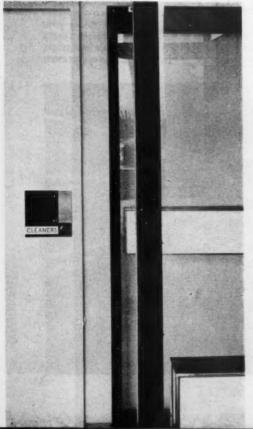
# LIBRARY FOR SHEFFIELD UNIVERSITY

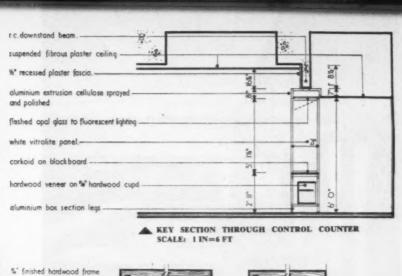
SECTION THROUGH BALUSTRADE AND STRING

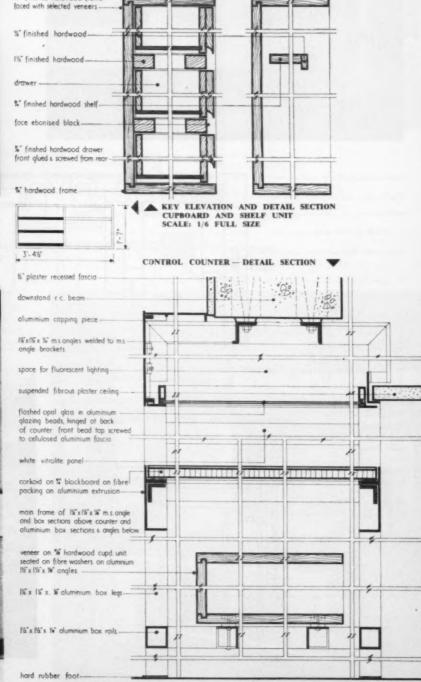




Above, the control counter at mezzanine level, see detail right. Below, a detail shot which indicates that equal care has been taken over the design of such a humble item as door furniture. See also push plate detail on page 385







## LIBRARY FOR SHEFFIELD UNIVERSITY

Services

The basement book stack and the principal reading rooms are fully air-conditioned. To reduce the cost, as much air as possible has been recirculated, although fresh air is introduced into the stack to the extent of 10 per cent, and in the reading rooms at the rate of 1,000 cu ft per reader place. To ensure that the books in the stack neither deteriorate from mildew or become over brittle, the relative humidity never exceeds 65 per cent, a requirement which alone demands refrigeration. The air in the stack is distributed by vertical ducts some 3in by 20in in section which form the metal uprights of the book shelving and which are connected to the main horizontal distribution ducting in the false ceiling above the top tier. To reduce fabric losses, all the stack external walls are lined with 2in cork, and there is a heating coil at ceiling level on each tier. In the reading rooms, to reduce solar gain and to reduce the demand on the refrigeration plant, windows



donish panelling in mople to door a wall

15" x "W" door stop

hardwood lining on rough ground

3" x 25" x 16" m x slam angle

armour plate door

15% maple linings

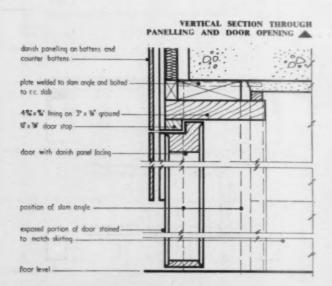
skirting line

4" plaster on brickwork

ex 2" solid core ply faced door panelled

The photograph above shows a voucher and staff counter in the catalogue hall. Floor, grey linoleum; lift wall on the left in alpes green marble; end wall, white plaster; wall on right, maple strip (see detail on left); illuminated ceiling, white corrugated plastic sheets in alloy channels. Below, a detail of adjustable book stacks in the closed access areas

CATALOGUE HALL—SECTION THROUGH PANELLING SCALE: 1/4 FULL SIZE

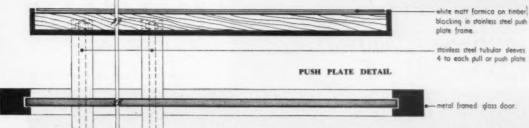




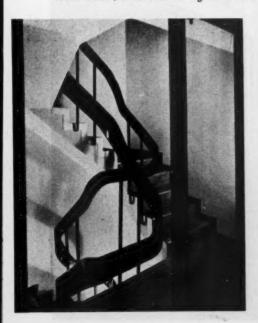
facing south and west are glazed with double anti-sun glass insulite panels. All rooms which have air conditioning have fixed windows and only those relying solely on radiators and convectors have opening lights. The ceilings of the reading rooms are in Frenger pierced aluminium panels which are clipped to the heating coils, above which is a layer of insulating and sound absorbent material.

Lighting in the reading rooms is by flush fluorescent fittings which can be lowered to allow ease of replacement. The catalogue hall has an overall corrugated plastic translucent laylight, above which are fluorescent lights at high level. Elsewhere lighting is by tungsten fittings. There are three electrical lifts; a goods lift connecting the covered loading bay and the workrooms, and a book trolly lift and book lift which connect the voucher counter and catalogue hall to all the book stack tiers. There is a fire detection system in all principal rooms which is connected to the nearest local fire stations.





Top, a corner of the post-graduate reading room. The window in a maple strip wall at the rear gives light to microfilm reading cubicles. Below right, the supervisor's desk in the main reading room. Below, a staircase serving book stack tiers





#### COST ANALYSIS OF CONTRACT PRICES

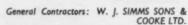
Tender date		 				October 1955
Work started		 			D	ecember 1955
Work completed		 				May 1959
Tender price accep	ted	install		nd finis	rstructum hes ding drai	£512,042
		age a	and au	uxiliary	buildin	
Superficial area		 			Tot	al £525,320 104,840 sq ft

	Total	0/	Per F.S.
Preliminaries and Insurance	15,300	3	2 111
Contingencies	25,600	5	4 91
Work below ground floor level	40,942	8	7 93
Structure and cladding	189,450	37	35 111
Internal finishes	55,100	103	10 61
Fittings (cloakroom, counters, racks, etc.)	44,850	83	8 53
Partitions and doors	12,800	21	2 53
Hot water, heating and ventilation	66,500	13	12 10
Electrical installation	44,800	81	8 81
Lifts	12,800	21	2 63
External plumbing and sanitary fittings	3,900	1	8

£512,042 (excluding external works £13,278) Total cost Cost per ft super

# LIBRARY FOR SHEFFIELD UNIVERSITY

The reading room



Sub-contractors and suppliers:

General Contractors: W. J. SIMMS SONS & COOKE LTD.

Sub-contractors and suppliers:

Air Conditioning Ducting: Andrew Machine Co. Ltd.
Asphale Paving and Cork Insulation: Limmer & Trinidad Lake Asphale Co. Asphale Tanking to Basement: Val-de-Travers Asphale Ltd. Balustroding and Handrails: Grundy Arnatt Ltd. Cloakroom Fittings: Conran Furniture. Clocks: Gents & Co. Ltd.
Collapsible Gates: The Bolton Gate Co. Ltd. Cork, P.V.C., and Linoleum Flooring: Horsley Smith & Co.
(Hayes) Ltd. Counter and Joinery Fittings: W. J.
Simms Sons & Cooke Ltd. Curtains: Liberty & Co.
Ltd. Danish Panelling: John Dale Ltd. Double
Glazing Units: Pikington Bross. Ltd. Electrical
Installation: Yorkshire Electricity Board. Electric
Light Fittings: Troughton & Young (Lighting) Ltd.;
The Merchant Adventurers Ltd.; Associated Electrical
Industries. Extruded Aluminium Columns: Northern
Aluminium Co. Ltd. Facing Bricks: Richard Parton
(Builders Merchan) Ltd. Fibrous Plaster and Acustic
Tile Ceilings: Claridges (Putney) Ltd. Fibrous Plaster
Mullion Casings: Claridges (Putney) Ltd. Fibrous Plaster
Collection Installation: The Pyrene Co. Ltd. Furnitue
and Fittings: Conran Furniture. Glass Lens Roofights
Amer Flooring & Paving Co. Ltd. Ironmongery:
Smith Bros. & Widdowson Ltd. Laminated Wood
Stair Treads and Landines: Hordern-Richmond Ltd.
Library Bookstacks and Shelving: Roneo Ltd. Lifts:
Otis Elevator Co. Ltd. Linoleum: John Walsh Ltd.
Lumenex Ceilings: Lumenated Ceilings Ltd. Maribe
Wall Linings, Facings and Flooring: Walter W.
Jenkins & Co. Ltd. Mechanical, Heating and Air
Conditioning: G. N. Haden & Sons Ltd. Metal
Windows, Doors, Ventilators and Frames: Mellowes &
Co. Ltd. Pyrwood Panelling: John P. White &
Sons Ltd. Pyrwood Panelling: John P. White &
Co. Ltd. Pyrope Roof Paving: Frazzi Ltd. Pyrwood Panelling: John P. White &
Co. Ltd. Stait Copings and Flooring: Walter W.
Jenkins & Co. Ltd. Sanitary Fittings: W. Emery &
Co. Ltd. Star Copings and Cilis: John Fletcher
Dixon Ltd. Sproyed Asbestos Columns: Dicks Ababstos
Insulating Co. Ltd. San



THE ARCHITECT and Building News, 23 March 1960

A central feature in the form of a "finger of light" points 100ft to the roof of the exhibition hall, symbolizing an extension of the public exhibition to the first floor. The Rotaflex light fitting was designed by Misha Black in association with John Reid

# **Furniture**

In this article Abner reviews the furniture exhibition (Earls Court, January 25 to February 6) in retrospect, with comment on recent developments within the furniture industry. Photographs of items discussed are cross-referenced with detailed information given in tabular form on pages 394-395

THE revolution that has come about in that part of the turniture trade that shows itself to the public at the Furniture Exhibition is one of the most remarkable things that has happened in the design world since the war. Less than five years ago the public was not admitted at all to what was the most dreadful display of hideous things. The only signs of hope for the trade at that time were to be found on the stands occupied by the C.o.I.D. and, later, by various schools of furniture design. There were, however, even then, some firms in the industry producing good, cheap stuff, but they mostly stayed away. When the Daily Express started to sponsor the show a section of it was opened to the public and things began to happen, slowly at first. The exhibition has since then steadily improved, both as to setting and contents, until this year it appeared as a first-rate exhibition.

I do not think that we are one of the leading style setters in first-rate furniture, but I do think that our designers and manufacturers are now producing a very good range of well-made stuff and one which no longer disgraces us. There are still far too many horrors but there is also a wide choice of pieces that one could at least live with. Indeed one might in time become fond of some of them. The biggest improvement seen this year was that manufacturers of the sounder sort had stopped trying to Continued on page 359



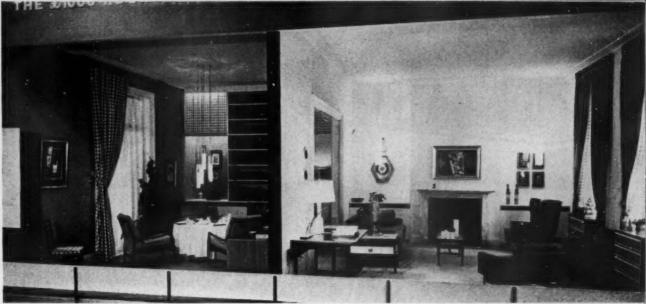


"Rooms on a Budget". The £100 rooms by Thurloe Conolly, of the Design Research Unit



The £800 rooms designed by Jo Pattrick





▲ The £1,000 rooms designed by Dennis Lennon

# **Furniture**

produce different designs just for the fun of it. Many of the pieces shown were, in fact, developments of those shown last year.

The layout of the exhibition and the Shell stands were designed by Misha Black and his boys from D.R.U. It was one of the most successful trade exhibition layouts I have seen. The central feature was something of a joint affair. Misha Black designed it with John Reid to help with the very effective "finger of light" and Peter Shepheard to do the charming flower beds or boxes. The C.O.I.D.'s own exhibit was grouped around the finger and was designed by Stefan Buzas. I thought that the whole centrepiece looked charming from above, but a bit confusing from the ground. The furni-

ture exhibited by the C.o.I.D. was displayed on a number of little islands over which were suspended large plastics sunshades. Looking through the exhibit I thought the outlines confusing and disturbing to a peaceful inspection of the goods shown. The two temporary staircases designed by Misha Black were fine and gave vantage points for very gay views of the main hall. The standard of lighting was intense, in fact it seemed to me, electrically, the brightest exhibition ever, so much so that much of the colour of things was quite removed.

## Rooms on a Budget

This year in place of "Right and Wrong", of "Before and After", the set-piece by the interior design experts consisted of a pair of basic rooms taken from a typical nine-teenth-century London house. Five designers were asked to prepare schemes, each to a budget ranging

from £100 to £2,000. The five solutions were shown side by side. The budget part of the exercise was no more or less accurate than such things usually are in an exhibition, but it served as a guide for comparison. The rooms had to be furnished with furniture on show in the main exhibition.

The £100 rooms were designed by Thurloe Conolly, of D.R.U., and were very successfully done on ordinary unpolished wood which would have looked pretty drab after six months' wear and not nearly so good if it had had a coat or two of sealer to keep it clean. Nevertheless, the things were well chosen and the general effect spacious and home-like.

### The £400 Rooms

Elizabeth Henderson, also of D.R.U., designed the £400 rooms and the result was rather similar to the first pair with more money spent on





# Furniture

them. There was still plenty of space and very little nonsense. I found the panelled wallpaper over the stove in the dining room too powerful and boring, particularly as it quite overwhelmed the charming little stove.

### The £800 Rooms

£800 is a fair amount to spend on two rooms and Jo Pattrick judged that for the money she could do some fairly extensive alterations; blocking out a fireplace, altering the wall between the rooms, and installing an indoor garden. The result, though less spacious than the cheaper rooms, was a cosy home. It had an atmosphere of reality and poise, with no feeling of experiment. It was, I thought a thoroughly professional job. The furniture was light and small in scale, and colours were warm and comfortable. I suppose the real reason I liked these rooms was because they imposed no pattern of living on the owners. Unexperimental, in-a-rut, the same mixture as before perhaps, but expertly done and full of atmosphere. I had two criticisms, however; the first was that I found the dark tiled chimney breast rather too much of a good thing. Sitting by the fire one's eyes, if not actually on the fire, rest somewhere on the chimney breast and a picture or mirror helps, and a shelf, though maybe unfashionable, is very useful. My second quibble is about the bookshelf which I thought should have had some visible means of support either by continuing to the sides of the recess or by being taken to the ground.

### The £1,000 Rooms

Dennis Lennon spent his £1,000 on a small number of expensive pieces. The result did not seem to hang together very well. For one thing, his dining room was in matching reds, floor, walls, and furniture. It certainly made a splash when new, unequal fading might have done terrible things to it. He also had the curious idea of using full-sized, low easy chairs at the dining table. This might suit those who normally pick at their food with their legs crossed, while smoking a cigarette, but not me. The living room had, however, an air of spaciousness and expensiveness, but I thought that such real quality as it had came from the "objects" hung on the walls and plants on the furniture, which were not included in the budget.

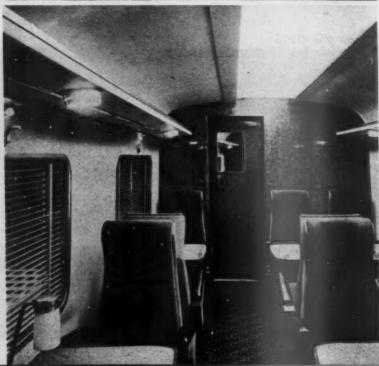
## The £2,000 Room

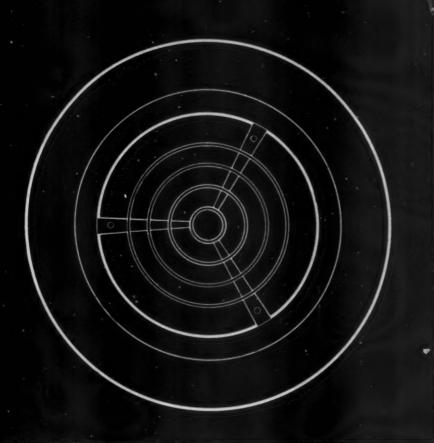
The really rich room, £2,000 spent by Margaret Casson and John Clarke.



Above, the kitchen of the "Home Magazine" stand with all major equipment built into the wall (reference I in the table on page 394). Below, R. D. Russell's scheme for a stateroom in the new Orient liner "Oriana". Bottom, a mock-up of part of a first-class Pullman car for British Railways, by Jack Howe







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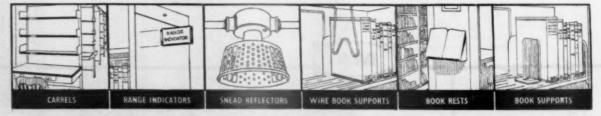


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# **Furniture**

of the R.C.A., certainly looked its part. The designers had clearly had some difficulty in finding sufficiently expensive furniture of good design and had turned to major structural alterations, including the removal of a cross-wall and a change of level for part of their scheme. Expensive special lighting arrangements, let in flush with ceiling, cost a great deal, but provided a special dramatic look which is quite lacking in the photograph. Floor lacking in the photograph. Floor surface in living and dining rooms were as sharply contrasted as possible, the former being long-haired goatskin and the latter polished marble tile. One plain wall, rather spoiled, I thought, by an undistinguished piece of sculpture and muddy picture, was set against two coloured and textured walls. The room was shown at night with the boldly patterned curtains drawn. The opposite wall had panels covered in the normal sized squares of gold leaf. This was a brilliant idea and was most successful. The living area, richly littered with books, had sophis-ticated knick-knacks, and had an air of untidyness which did not quite suit the style. However, one had the feeling that a Chinese servant might at any moment glide silently in and put it all right. For my taste the furniture was all rather too near the ground. Once lowered onto or into any of the seating arrangements, I would have eaten my dinner there. Indeed, anything rather than having to sit on one of those glassfibre and nylon music stands in the dining This scheme was a first-class piece of design which depended on

skilful lighting for its total effect. The whole idea of these rooms was to show modern British furniture in use and they did this very well. As a show of the art of the interior designer they were less successful. A room is to be in, not to be seen with one wall removed, and this presents an entirely different problem. Leading the crowds through furnished rooms may be satisfactory at Versailles or Hampton Court, but it does not come off at the Ideal Home Exhibition. The best solution I have seen so far was in the "exploded" flat which formed the British contribution at the H55 Exhibition at Hälsingborg, Sweden. There a widened passage led the crowds through Jo Pattricks' flat without actually upsetting the rooms, and one had the sensation of being inside.

### Home Magazine

This stand, designed by Spencer & Gore on a rather awkward triangular site, caused a good deal of comment, mainly because of an unusual kitchen shown as part of a flat. Hot-plates and working surfaces were accommodated on a cen-



One or two firms are making well-designed kitchen fittings, although they do not always show them to the best advantage. Above, equipment by Wrighton. Below, part of a section devoted to the artist in your home (see text on page 394)





2. Plain and well detailed standard wall bookcase and desk. From one of the "Fyne Ladye" range. 3. Neat and inexpensive armless chairs by Ercolani



6. The Marlowe chair. A neat and not too bulky upholstered piece made by R. S. Stevens Ltd. 7. An adjustable backed dining chair designed by Robin Day

# **Furniture**

10, 11

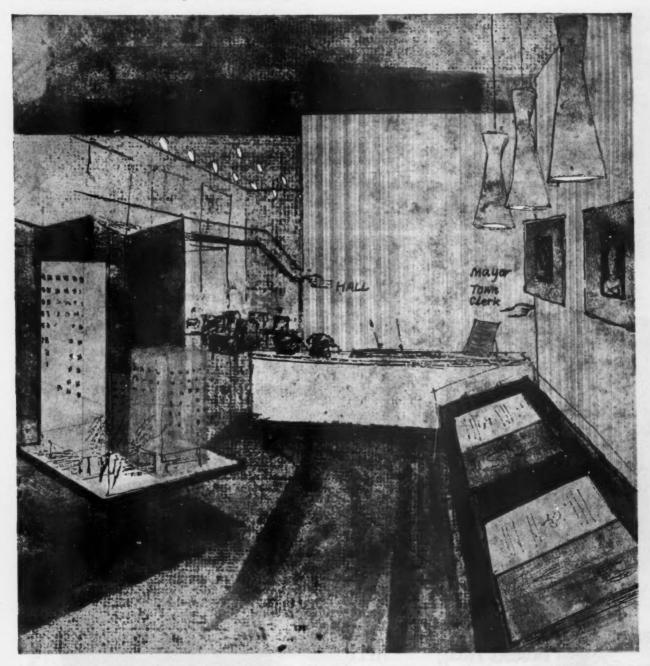
On this and the following page we illustrate a number of items of furniture with a brief description. Each photograph is given numerical reference which refers to the fuller information in tabular form printed on pages 394 and 395



10. A sober and very practical dining room set by D. Meredew Ltd. 11. Furniture for the Stag Cabinet Co. Ltd., designed by John and Sylvia Reid







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4. An unusual suite designed by Joseph Nottage. 5. Simplicity is still the key to Conran's designs. This soft armchair is typical



**Furniture** 



8. A Charles Eames adjustable reclining chair exhibited on the Hille stand 9. Another dining suite by John and Sylvia Reid for the Stag Cabinet Co. Ltd.



12, 13. Furniture from the Archie Shine Ltd. stand. Left, three very pleasant and simple dining chairs; right, a dining room setting







A second dining room setting on the large stand devoted to the products of Archie Shine Ltd. Designer Robert Hermitage (see reference 14 in the tabulated information on page 395)

# **Tabulated Information**

# **Furniture**

tral island, while ovens, washing machine and refrigerator were let flush into the wall. The various structural and insulation difficulties of this exercise had not, I think, been very thoroughly worked out. From an appearance point of view the wall was not really a success as it looked too like the furnace room at a crematorium, complete with observation windows to show how the bods are getting on.

The dining room was placed in an open-air bandstand, pretty, but draughty, while the open hearth fireplace was backed by a window filled with obscured glass. The overall effect of the scheme was unusual enough to draw crowds. I think we shall hear more of these designers.

### Railway Coach, and Cabin

A mock-up of part of a car from Jack Howe's diesel Pullman train—the finished article of which is said to be waiting in the sheds unusable because of staff trouble—was also shown. Neat and well detailed though it is, it semed to me to be overlit. Surely the great strip of brightly lit ceiling is unnecessary? I shall look forward to travelling in this train as I feel sure that it is one of the things now coming off the drawing board which will help to restore the prestige of British Railways.

A double stateroom from the new Orient Line's Oriana, and designed by R. D. Russell, seemed as big as a fair-sized flat. The woodwork was beautifully detailed as you would expect, but the rooms had, for one, no feeling

of the sea. Perhaps it is required that this should be so. Perhaps, too, it is stupid to suggest a boating idiom should be adopted in so large a ship. Without circular scuttles and beds, one above the other, it is, after all, not very easy to convey the impression that the cabin is a cabin and not a hotel bedroom. Perhaps they are right after all.

### "The Artist in Your Home"

I noticed that several manufacturers were using modern paintings on their stands. Five years ago one would not have believed such a thing possible. No doubt Misha Black nad something to do with it, for quite a large area in the gallery on the first floor was given up to a feature, "The Artist in your Home". This consisted of a series of free-standing, floor-to-ceiling panels to give oblique views in various directions. The panels were white and formed a background for modern paintings and sculpture. Well-chosen pieces of furniture were also used in the composition. This was an excellent idea. The setting, contrived to give each picture a little privacy, did not, to my mind, entirely succeed.

Within Misha Black's admirable layout, which included a simple stand framing, the exhibitors did what they liked and while many obviously took professional advice, many obviously did not. The furniture manufacturing industry as a whole may well be well pleased with its progress, but it has still a long way to go before it can claim to be in the front rank, let

alone leading the world.

Photograph reference and item		Manufacturer	Designer	Dimensions	Materials and finishes	Price
1.	Built-in kitchen unit designed as a mock up		Spencer & Gore	6ft 6in high x 3ft 6in Top: Ift 6in x Ift 6in Length: 4ft 6in	Spine wall through centre of unit houses service such as water and electricity and supports the whole unit. All in timber.	
	Radiant plates	Moffats Ltd.				£30 10s for a group of 2 with thermal guard
	Built-in 'frige	Westinghouse Elec.				£272 10s
	Built-in ovens	mternational Co.				£116 13s 6d
	Built-in washer dryer					£158 £122
2.	Bookcase	Henry Stone & Son (Furniture) Ltd.	Richard Hornby	3ft wide 11½in deep 3fc 9in high	Oak or Mahogany or Walnut	£19 19s £19 19s
	Desk		**	2ft 8in wide by 1ft 4in deep 3ft 5jin high	Mahogany or Walnut with Sapele veneer	£29 5s
3.	Chairs	Ercol Furniture Ltd.	L. B. Ercolani	31 in high 20 in wide Overall depth: 2ft 6 in	Natural waxed finish—Beech. Also polished to dark or ebonized colour. 3 different ranges of covers.	13gn 14gn 15gn according to cover.
	Table		L. R. Ercolani	14½in high 3ft 5½in long 1ft 3in wide	Natural colour finish. Underpart and legs: Beech. Top: Elm.	£7 10s



# 5.30 SAFETY NET AT SAMPSON'S

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# **Furniture**

# Tabulated Information—continued

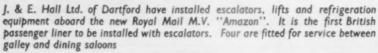
Photograph reference and item	Manulacturer	Designer	Dimensions	Materials and finishes	Price
4. Table	A. Arenson Ltd.	Joseph Nottage	47in by 26in Extends to 59in	Framework: Wrought-iron. Top in mela- mine plastic in a wide range of colours, also multicoloured.	622 Is
Chairs				Upholstered in a wide range of colours and	67 16
Sideboard	**	**	47‡in wide 17‡in deep 32in high	materials. Top in melamine plastic. Interior in man- made materials, washable.	each £25 2s
5. Chair	Conran Furniture	Conran Design Group		Frame: Iin square tube, stove-enamelled eggshell black. Seat finished with domed plastic ends. Upholstery in wide range of wool, cotton or linen or leather. Arms: African Walnut.	From £21 10s 6d to £26 approx.
6. Marlowe Chair	R. S. Stavans Led.	Ronald E. Long	Seat height: 21in Overall width: 34in Depth of seat: 21in	Any maserial and colours.	From £32   3s to £38 6s 6d
7. Adjustable rille of London Robi		Robin Day	29jin high Seat height: 18jin Seat width: 20in With arms: 22in wide	Teak and leather, any colour.	17gn With arma: £26 12s
8. Raclining chair Hille of London undar licence from Harman Miller Co. (Amarica)		Charles Eames	39in high Seat height: 15½in Seat width: 26½in Depth, front to back: 30¼in Stool height: 17¼in Width: 21¼in Depth: 21in	Aluminium frame with nylon arms. Cover: Man-made fibres, in a choice of colours.	£60 Stool: £24 6s 6d
9. Table	Stag Cabinet Co. Ltd.	John and Sylvia Reid	27in high Length: 5ft extending to 6ft 4in	Top is finished in oiled-teak veneer. Steellegs are satin nickel plated.	£17
Chairs				Steel framed satin nickel plated. Upholstery in real leather on Dunlopillo on a formed ply base. 2 colours—black or natural coloured. Wooden back is shaped from the solid.	£8 15a each
IO. Table	D. Maredew Ltd.	Italian designed	Open: 6ft 1½in x 3ft 3½in Closed: 4ft 5½in x 3ft 3½in	Tesk. Oiled finish.	£40 2s 7d
Chairs				Teak. Oiled finish. Wide range of coverings.	£6 13s each
Sideboard	**	**	5ft 7in long	Teak. Oiled finish.	£36 10s
II. Sideboard Consistsof2units: Storage unit: 3ft Sideboard unit: 4ft 6in	The Stag Cabinet Co. Ltd.	John and Sylvia Reid	This set is designed on a lft 6in module	Oiled teak. Metal legs and handles, nickel plated.	£19
Drop-leaf table	**	**	Length 3ft extending to 4ft 3in Width: Ift 6in		£16
Chair		**			£8 15s
12. Chair on extreme left. This is not yet in production, buthassameframe as middle chair.	Archie Shine Ltd.	Robert Heritage	-	Thick coachhide seat.	
Dorrington chair (middle)		*	17jin back-to-front 17in seat height 28jin total height 20in wide	Teak or Rosewood or Mahogany Also available with arms (Carver) Mahogany Teak Rosewood Black plastic cloth (also other colours).	£10 6s £14 14s £8 19s 7d £12 16s £13 3s 6d £18 13s 6d
Chair on right: Milkmaid		"	20§in wide 17in from back to front 17in high to seat 29in total height	Same woods. Covers: Tibor Reich & Donald Brothers.	Same prices
13. Dorrington Sideboard	Archie Shine Ltd.	Robert Heritage	7ft long, 18in deep 2ft 6in high	Teak or Rosewood or Mahogany and Rosewood. Metal legs.	£70 7s 10d
Hamilton table ,		*	4ft 9in closed 6ft 6in open 2ft 11in wide 2ft Sin high	Tesk (see below)	£42 15s 3d
Milkmaid chairs	**	**		(See above.)	
14. Hamilton table	Archie Shine Ltd.	Robert Heritage	6ft long closed 8ft long-open 2ft I lin wide 2ft 5in high	Rosewood or Teak. Combination of: Rosewood and Mahogany, Indian Laurel and Walnut.	£96 14s 11
Chairs:	*	3.0	22in front to back 19in wide 18in seat height 33in to height at back	Rosewood and usual combinations. See above.  Also Carver.	£15 8s

# Industrial Notes

- Laycock Engineering Ltd. (Garage Equipment Division) have opened a new western area sales and service depot in Bridge Road, off Station Road, Kingswood, Bristol (telephone: Bristol 65-5814). The manager of this new depot is Mr. F. A. Thiel and the depot is scheduled to serve Hampshire, Dorset, Isle of Wight, Channel Isles, Wiltshire, Gloucestershire, Somerset, Devon, Cornwall, South and West Wales, and Eire. It is anticipated by the company that new or enlarged premises will be operating in London and Glasgow during this year.
- Denton Edwards Paints Ltd., of Abbey Road, Barking, Essex, have acquired the whole of the shares of Amalgamated Paints (London) Ltd. The board of the latter company now consists of Mr. P. Edwards (chairman), Mr. D. P. Sullivan (managing director), Mr. B. Edwards, Mr. D. Roe and Mr. I. Abrahams. The company will continue to operate under its own name and all communications should be addressed to Abbey Road, Barking, Essex (tele-phone: Rippleway 3871).
- J. R. Gordon & Co. Ltd., of Manchester, have made fresh marketing arrangements for their P.D. insulation board products. All areas other than the County of London are now being dealt with by Powell Duffryn Timber Industries Ltd., of have designed a special mobile unit

- Queensferry, Chester (telephone: Hawarden 2001). All sales for the County of London will continue to be dealt with by Learys' Fibreboards Ltd., King William Street House, Arthur Street, London, E.C.2. (telephone: Mincing Lane 2424).
- Mr. R. E. Landsbert has been appointed a director of Marryat & Scott Ltd. and Marryat & Place Ltd.
- O Cellon Ltd. have expanded their paint application laboratory at Kingston works by the installation of new equipment at a cost of over £15,000.
- Dudley Turner & Vincent Ltd. have moved to a new address at Boston House, 36-38 Fitzroy Square, London W.1 (telephone: Langham 6494).
- Bambergers Ltd., of 27/28 Finsbury Square, London, E.C.2, acquired the share capital of Richard H. Keeping Ltd., timber importers and merchants. Keepings will continue to operate under their own name and to specialize in importing teak and other valuable hardwoods. They will at the same time be able to offer stocks of softwoods, plywood, chipboard and veneers.
- Broads Manufacturing Co. Ltd.

- for the purpose of demonstrating the use of their Pakbrik equipment designed by the Building Research Station for use in the handling of packaged bricks. The unit will be visiting London, Lincoln, Lancashire, Yorkshire, Durham, Derbyshire, Nottingham and the West Country, and is fully committed until the end of April. The company will, however, be pleased to receive requests for demonstrations beginning in May, and such requests should be sent to their head office at 4 South Wharf, Paddington, London, W.2.
- Bilston Foundries Ltd. have commenced delivery of an order for 1,000 baths to Butlins Holiday Camp at Bognor Regis, Sussex.
- Mr. K. A. Fillmore has been appointed divisional sales manager at the Leigh Works of British Insulated Callender's Cables Ltd.
- The Midlands regional office of the Timber Development Association is now situated at 55 Pershore Street, Birmingham, 5 (telephone: Midland
- The directors of The George Cohen 600 Group Ltd. have declared an interim dividend of 4½ per cent, less tax, on their ordinary stock in respect of the financial year ending March 31, 1960.
- C. F. Anderson & Son Ltd., tim-ber and wallboard importers, have bought the famous Collins Music Hall in Islington, London. With the approval of the L.C.C., the newly acquired premises will become a timber store and it is probable that the remainder will be fitted as offices.
- The J. I. Case Co. Ltd., the British subsidiary of J. I. Case Co. (of U.S.A.), have appointed Mr. George H. Fryer and Mr. Ingwald Kraft to be their service manager and London area manager respectively.
- The United Steel Companies Ltd. show a consolidated surplus after taxation for the year ended September 30, 1959, of £8,544,000, compared with the 1958 result of £8,128,000.
- Mr. W. Pigdon, general manager of the Wells factory of E.M.I. Electronics Ltd., is leaving shortly to take up a new appointment as executive vice-president of E.M.I.-Cossor Electronics Ltd. in Halifax, Nova Scotia, Canada. Mr. Pigdon's duties at Wells are being taken over by Mr. Edward Bagley as joint executive responsible to the deputy managing director, Mr. P. A. Allaway.
- The policy of centralization of the offices of the Gliksten Group of Companies is further implemented by the transference of Merediths Ltd. to Carpenters Road, Stratford, London, E.15 (telephone: Amherst 3300).





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## NEW PRODUCTS

In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements to existing ones. Any advantages claimed for a product are from information supplied by the manufacturer

### Parkray Room Heaters Modified

The Parkray 30 (inset) and 32 (free-standing), solid fuel closeable stoves, are now being equipped with heat-resisting clear glass doors. Advantages claimed for the new type over the mica panelled doors are that they are able to withstand greater thermal stress and strain; give a clear view of the fire; eliminate the need for cross-members in the door; and are not liable to sooting up. The glass doors consist of vertical strips, in order to prevent thermal strain at the centre from being communicated to the edges. In this way, the temperature at the centre of the doors is localized. Retail prices of these stoves are from £23 12s 6d and £27 17s 6d, respectively, including steel ashpan and operating tool. Both are still available with mica doors at £1 less. A set of six matched glass strips (per door), costs 12s. The company has, in addition, introduced a new Parkray model 30/22, which will fit into a fireplace with overhanging frieze or lintel, approxi-mately 22in in height. This model is available with glass doors at the same price as the Parkray 30.

Radiation Group Sales: Ltd., 255 North Circular Road, London,

N.W.10.

Readers' Information Service, Ref. A. Date 23/3/60.

## New Partitioning (B)

This maker of wooden partitioning has now produced a single skin partition with special preformed ducting for electrical cables. This special ducting, being built-in before creetion enables electrical installations.

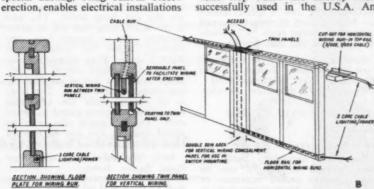
and connections to be installed or altered in completed partitioning. By this method the partitioning is first erected and the electricians can carry on with their installations without further hindrance or waiting for partitioning sections to be put in place. Power or lighting cables can be run through ducting at either the top or bottom of the partitioning. In the former case a special cut-out is provided in the top rail and in the latter a special cable run is set into the floor rail. Where vertical wiring is required special twin panel sections are provided which incorporate a vertical wiring run from which leads can be taken at any required point. In appearance, the new partitioning is similar to the standard Clifford partitioning and our diagram shows how wiring work can be carried out.

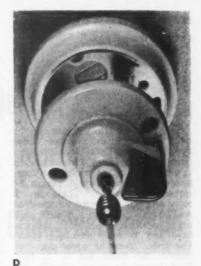
The Clifford Partitioning Co. Ltd., 240 Burlington Road, New Malden,

Readers' Information Service, Ref. B. Date 23/3/60.

### **Expansion Jointing**

Tretol Ltd. have joined forces with Servicised Products Corporation of Chicago, in order to manufacture Servicised expansion jointing products in this country. Products which will be manufactured include Kork-Pak, a preformed joint filler available in a wide variety of thicknesses up to one inch. It is claimed to possess powers of recovery which show a maximum loss of only 3 per cent of its weight after compression. Another new product which will be of interest to civil engineers is a split type rubber water stop which has already been successfully used in the U.S.A. An





advantage claimed for this waterstop is that it reduces the need for complicated split form work and thus cuts down installation costs. Para-Plastic 41 and 44 sealing compounds are stated to possess such a high standard of adhesion that primers can be completely eliminated. Para-Plastic 41 is stated to conform to American Federal Specification SS-S-164(I) whilst at the same time meeting the penetration requirements of B.S. 2499. The company formed as a result of this amalgamation provides a technical advice service on all types of expansion jointing problems and full information and literature are available from 2 Caxton Street, Victoria, London, S.W.1. Abbey 1024.

Tretol-Servicised Ltd., Tretol House, The Hyde, London, N.W.9. Colindale 7223.

Readers' Information Service, Ref. C. Date 23/3/60.

### Bathroom Ceiling Switches (D)

A new addition to the MK range of switches is a 15 amp double pole ceiling switch specially designed for the control of bathroom fires. It is available either with or without neon pilot lamp (200/250V) and moulded red lens. The fittings have a base diameter of 2in and are supplied with fixing holes at 1½in centres. They fit on 3½in dia mounting blocks (List No. 2051) and are made in accordance with B.S. 2652: 1955. Similar designs are to be made with square plates for mounting in the flush B.S. 1363 box. Prices: with pilot lamp (List No. 3154), 12s 6d (brown), 13s 4d (ivory); without pilot lamp (List No. 3151), 7s 6d (brown), 8s 4d (ivory); No. 2051 mounting blocks cost 1s (brown) and 1s 2d (ivory).

and 1s 2d (ivory).

MK Electric Ltd., Wakefield Street,
London N.18. Edmonton 5151.

Readers' Information Service,
Ref. D. Date 23/3/60.

# NEW PRODUCTS (continued)

### New Lavatory Basin (E)

The Shell lavatory basin is the latest addition to the Swanlyne range of sanitary appliances. It is of a most unusual shape and is manufactured in vitreous china. The Shell set comprises three pieces which cannot be supplied separately. These are a bowl which is supported on standard wall hangers, a top inverted shell which is bolted on before the basin is fixed and a lower plumbing cover. The lower plumbing cover does not support the basin but is, in fact, fixed below the basin after it has been installed. It is open at the base so that, where essential, the waste pipe and supply pipes can be brought up through this space. Two screw-down valves are connected with twin in supply nozzles which deliver water



from below the upper shell. The waste is a 1½in Leanit type, with no chain. The design is at present stocked in soft pink blending into grey, and soft turquoise blending into grey. Both of these are available either in the plain colour or decorated. Overall measurements, 25½in by 16½in by 24in high. Price: all white £25; standard single colours £30; decorated on white £33; shaded colours with plain colour bowl £36; shaded colours with decorated white bowl £39 10s.

Alfred Goslett & Co. Ltd., Charing Cross Road, London, W.C.2. Readers' Information Service, Ref. E. Date 23/3/60.

## Plastic Shuttering (F)

This company has developed plastic shuttering, formed from 0.040in thick high impact polystyrene sheet, in various patterns which provide three-dimensional effects to concrete facings and other surfaces. The shuttering is produced in sheets measuring approximately 35in by 22in and they usually have a gloss surface on one side and a satin matt finish on the reverse. In

order to produce the effects of surfaces required, the sheets are abutted and taped on the reverse side with a waterproof self-adhesive Vinyl tape and supported by conventional wood or metal facings. After the concrete has been vibrated and set, the sheets can be released from the completed facings by a stripping action and no release agents are required for this Hair lines that may purpose. caused by joints can be wet rubbed The sheets have been tested at the Building Research Station where it was noted that the semi-gloss finish obtained on the set concrete is retained on interior work whilst exterior facings weather down after a period of six months to a fine matt finish. It is claimed that the sheets may be reused as many as 12 times if desired. The five different patterns produced are an overall rectangular pattern with 1in by 1in squares, an overall rectangular pattern with 1in by 1in rectangles, an overall square tiled pattern 4in by 4in, an overall domed pattern and a brickwork pattern with the brick size of 81 in by 21 in. Cost per sheet varies between 15s and 25s according to the quantity ordered.

Omega Plastics Ltd., Highbridge Road, Barking, Essex.

Readers' Information Service, Ref. F. Date 23/3/60.

## New Fixing Tools (G)

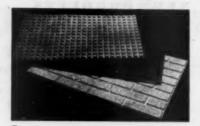
The Bossong cartridge hammer, guns and hand tools, which are of continental origin, are now to be manufactured in this country. Bossong cartridge-firing gun will fix such materials as timber and metals by means of bolts, nails and screws of varying lengths, to concrete, steel. brickwork and breeze blocks, with a minimum of effort. In addition. Whitworth screw-headed studs can be used for proud fixings. The bolts and nails can be fired directly into the basic materials and in all cases the accessories are permanently fixed into the groundwork. The gun is fully automatic and cartridge ejecting whether loaded or spent, and does not require a licence to operate. The gun is simple to operate and accessories are interchangeable with the handoperated fixing tool. A special muzzle has been devized to ensure accurate fixings into slotted angle "T" sections and narrow-slotted steel lengths.

Bossong Co. Ltd., 3 & 4 Duxons Turn, Maylands Avenue, Hemel Hempstead, Herts. Boxmoor 6850. Readers' Information Service,

Ref. G. Date 23/3/60.

### New Executive's Chair

The T.T.I. executive's chair has been designed so that it can be folded quickly into a minimum of space. It is flexible and very light in





weight. The, arms and back are padded with foam plastic and this is covered with Duracour, a fire resistant covering recently developed by Courtaulds Ltd. This covering is claimed to be unaffected by sunlight as well as being non-stain, and moth, rot and damp proof. It can be sponged down when necessary. The framework is of tubular steel and the chair is available either in claret, lime or turquoise blue. Price £5 13s 6d.

Tool Treatments (Chemicals) Ltd., Colliery Road, Birmingham Road, West Bromwich, Staffs.

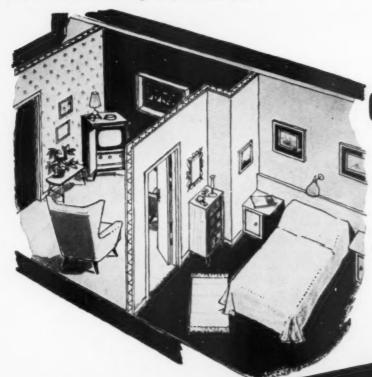
Readers' Information Service, Ref. H. Date 23/3/60.

## Oil-feed Indicator

The Suba Model 109 oil-feed indicator is a small and very compact unit. It measures 4in high by 1½in in dia. and can be fitted into confined spaces, whilst at the same time it is capable of giving a very clear indication of the oil flow. The oil feed can be adjusted by means of a fine thread controlled from 3 g.p.m. to complete cut off whilst the system is still running and will handle pressures up to 125lb p.s.i. The flow is observed through Perspex windows which are sealed at both ends and are dirt and damp proof. The inlet are dirt and damp proof. is in B.S.P. male and will fit either standard pipe or flexible hose connections, whilst the outlet is  $\frac{3}{8}$ in B.S.P.T. male. Flow adjustment cannot be accidentally altered or tampered with as a key is supplied for any necessary alterations. The body is of bronze while the adjustable screw is of cadmium plated hardened The lock-nut is also cadmium plated and the unit can be finished either in dull nickel or black wrinkle.

Suba Hydraulics Ltd., 86 Lind Road, Sutton, Surrey.

Readers' Information Service, Ref. I. Date 23/3/60.



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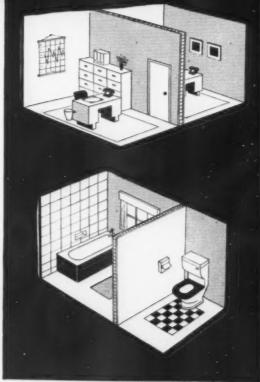
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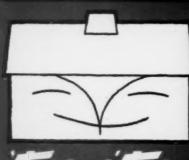
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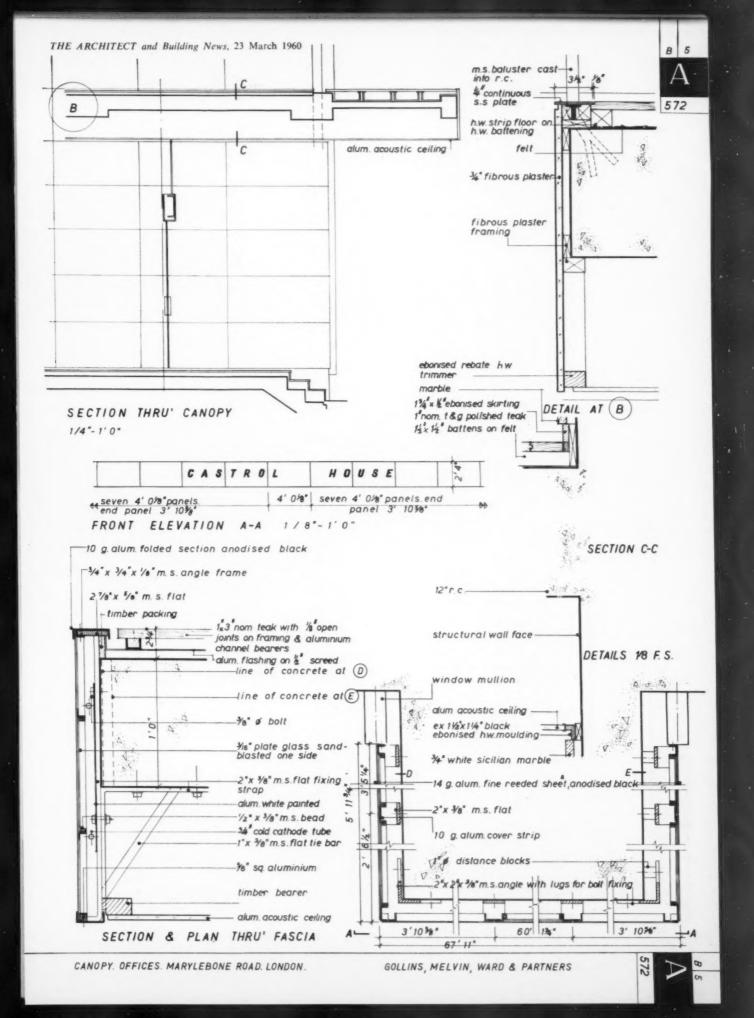


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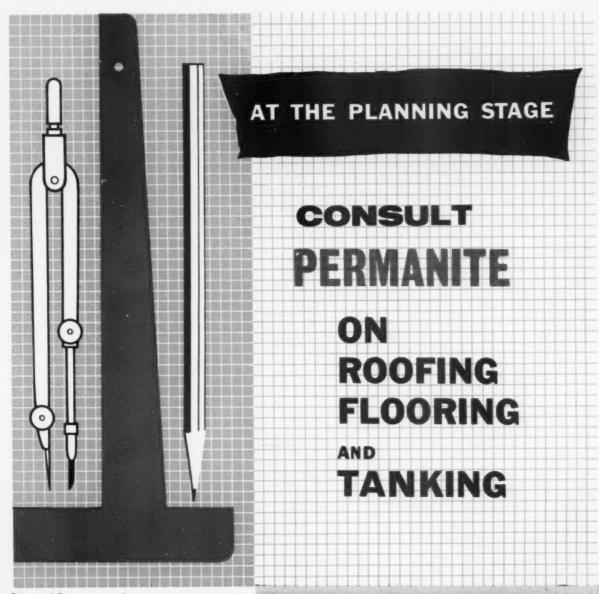
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#### WIDE SPAN PORTALS



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BARNSLEY B.C. (a) Erection and completion of traditional houses (14 dwellings infilling, Athersley North and South estates) and 76 dwellings adjoining "The Limes", Gawber Road as follows: 39 pairs of one-bedroom bungalows, eight one-bedroom bungalows in blocks of four, two pairs of three-bedroom houses. (b) Borough Engineer, Town Hall. (c) 2gn. (e) March 29.

BELFAST C.C. (a) Erection of two tower blocks of flats, each 13 storeys in height on the North Queen Street development, Victoria Barracks. The full scheme will ultimately include further similar tower blocks in addition to eight and four-storey slab blocks of maisonnettes and traditional houses. (b) Town Clerk, P.O. Box 234, City Hall. (d) March 28.

BINGHAM B.C. (a) Erection of two shops and two flats at Bingham. Two shops and two flats at Keyworth. (b) William Saunders & Partners, 24 Castle Gate, Newark-on-Trent. (c) 3gn. (e) March 31.

BOLTON B.C. (a) Erection of 24 dwellings on School Hill redevelopment area, being one five-storey block. (b) Housing Department. (c) 2gn. (e) April 6.

BOOTLE B.C. (a) Additions and alterations to the County School for Girls, Breeze Hill. (b) Borough Surveyor, Town Hall, 20. (c) 2gn. (e) March 25.

BRADFORD C.C. (a) Erection of 89 dwellings at Holme Wood estate. (b) City Engineer and Surveyor Town Hall. (c) 2gn. (e) April 4.

BRIGHTON B.C. (a) Fixed-price tenders for erection of the first stage of the College of Arts and Crafts. (b) Borough Surveyor Engineer and Planning Officer, 26-30 Kings Road, Brighton. (c) 3gn. (e) April 12.

BROWNHILLS U.C. (a) Erection of 18 houses High Street, Clayhanger. (b) Charles H. Hunt, Esq., Engineer and Surveyor, Coombe House, Brownhills, Staffs. (c) 2 gn. (e) March 28.

CARDIGANSHIRE C.C. (a) Erection of a county primary school at Comminscoch, near Aberystwyth. (b) County Architect, County Hall, Aerayron. (c) 2gn. (e) April 4.

address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked \* are given in the advertisement section.

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CARMARTHEN R.C. (a) Erection of four three-bedroom houses at Len-y-Prior, St. Clears. (b) Surveyor, 3 Spilman Street. (c) £1. (e) March 30.

CHESTER C.C. (a) Erection of a shop, flat and kiosks at George Street. (b) City Engineer and Surveyor, 49 Northgate Street. (e) April 9.

CHESTER C.C. (a) Erection of 110 houses and flats and 20 lock-up garages on Plas Newton estate. (b) City Engineer and Surveyor, 49 Northgate Street. (e) April 4.

CUMBERLAND C.C. (a) (1) Erection of additional classroom and staff room at Gilsland School. (2) Extensions, etc., at High Kesket C. of E School. (3) Erection of a rural police station at Kirkeswald. (4) Erection of two pairs of police houses at Whinlatter Road, (b) County Architect, 15 Portland Square, Carlisle. (e) March 29.

DERBYSHIRE C.C. (a) Erection of a pre-cast concrete garage block 73ft long by 30ft wide, and drainage works at Mansfield Road, Hillstown. (b) County Surveyor, County Offices, Matlock. (e) March 28.

GLASGOW C.C. (a) Extension of Our Lady and St. Francis School, Charlotte Street, C.1. (b) City Architect and Planning Officer, 20 Trongate, Glasgow, C.1. (d) Immediately.

GODSTONE R.D. (a) Erection of four blocks of 12 units total, all in two storeys, at South Nutfield, Surrey. (b) Engineer and Surveyor, Council Offices, Oxted. (c) 2gn. (e) April 6.

GREAT HARWOOD U.C. (a) Erection of seven blocks of four flats. (b) Grimshaw and Townsend, 24 Willow Street, Accrington. (c) 2gn. (d) Immediately.

.

GREENWICH B.C. (a) Erection of a cleansing station and improvements and extensions to existing workshop, garage and welfare buildings, all at the Council's Tunnel Avenue depot. (b) Borough Engineer and Surveyor, Town Hall, S.E.10. (d) March 24.

HAVANT AND WATERLOO U.C. (a) Fixed-price tenders for erection of 20 aged persons' flats at Forest End, Waterlooville. (b) Engineer and Surveyor, Park Road North, Havant. (e) April 2.

.

HAZEL GROVE AND BRAMHALL U.C. (a) Construction of 40 brick garages. (b) Engineer and Surveyor, Council House, Hazel Grove. (c) 2gn. (e) March 29.

HUNTS C.C. (a) Erection of a fourbedroom family group home of traditional construction with load-bearing walls and concrete strip foundations. (b) County Architect, County Buildings, Huntingdon. (e) April 15. KNUTSFORD U.C. (a) Conversion of the Marcliff Cinema into a public hall, consisting of alterations to main hall, provision of dance floor, additional toilets, interior decoration, lighting and general repairs. (b) Surveyor, Council Offices, Toft Road. (c) 2gn. (e) April 2.

LEYLAND U.C. (a) Contract 32. Erection of 22 pre-cast concrete bases and other ancillary works on Wade Hall estate. (b) Engineer and Surveyor, Council Offices. (c) 2gn. (e) March 29.

MANCHESTER C.C. (a) Design, detailing and construction of structural framework in reinforced concrete and steel, for a proposed occupation centre at Wythenshawe. (b) City Architect, P.O. Box 488, Town Hall, Manchester. (e) April 12.

MANCHESTER C.C. (a) Supply and erection of one heated timber greenhouse, 75ft by 18ft at Alexandra Park. (b) Director of Parks, Town Hall. (e) March 28.

MANSFIELD B.C. (a) Alterations and extensions to public library at Leeming Street. (b) E. T. Crowe, Esq., Borough Engineer and Surveyor, Carr Bank. (c) 2gn payable "Town Council of Mansfield". (e) March 31.

MATLOCK U.C. (a) Erection of five blocks of four Homeville one-bedroom flats at Church Road, Darley Dale. (b) Engineer and Surveyor, Mr. N. Chamberlain, Town Hall. (c) 3gn. (e) April 1.

NESTON U.C. (a) Erection of 50 dwellings on Clayhill housing estate, Liverpool Road. (b) Architect, Morton Place, Pwllychrochan Avenue, Colwyn Bay. (e) March 31.

NEW SARUM C.C. (a) Erection of 40 houses, 24 flats, 11 bungalows on Bishopsdown estate. (b) City Engineer, The Council House. (e) April 8.

NEWTON ABBOT R.C. (a) Erection of three pair of houses at Bovey Tracey, three houses and one bungalow at Ogwell and three bungalows at Denbury. (b) Clerk to the Council, Council Offices, Kingsteignton. (c) 2gn. (d) March 24.

NORTHAMPTON R.C. (a) Erection of 53 bungalows. 12 houses and three clubrooms as follows: Denton, 11; Great Houghton, 4; Little Houghton, 17; Harpole, 8; Kislingbury, 12; Milton, 10; Rothersthorpe, 2. (b) R. J. Miller, Architect, 1 Cheyne Walk, Northampton. (c) 3gn. (e) April 13.

READING B.C. (a) Erection of 118 dwellings and 52 garages at Bulmershe estate, near Reading. (b) Borough Architect, Town Hall. (c) 2gn. (e) April 8.

RINGWOOD AND FORDINGBRIDGE R.C. (a) Alterations and additions to Public Offices, Ringwood. (b) Public Offices Ringwood. (c) 2gn. (e) March 31.

RUGBY B.C. (a) Construction of a paddling pool, shelter, pump house and refreshment kiosk in Rugby recreation ground. (b) Borough Surveyor, Burford House. (c) 2gn. (e) April 4.

RUTLAND C.C. (a) Erection of extensions to Uppingham Secondary School, consisting of a new hall/gymnasium, two classrooms, library, art room and workshop block with ancillary accommodation. (b) County Architect and Planning Officer, County Offices, Catmore, Oakham. (c) 2gn. (e) March 28.

SAFFRON WALDEN R.C. (a) Erection of four flats at Wimbish. (b) Clerk of the Council, Council Offices, Debden Road. (e) April 9.

SELKIRK C.C. (a) All separate trades for reconstruction of Knowe Park School. (b) I. & J. Hall, Ladhope Vale, Galashiels. (d) March 26.

SEVENOAKS B.C. (a) Erection of three pairs of three-bedroom houses, one block of four three-bedroom houses and two blocks of four ageing persons' flats on Crouch House Lane, Edenbridge. (b) Engineer and Surveyor, Inglewood, Oak Hill Road, Sevenoaks. (c) 2gn. (e) March 29.

SOUTHBOROUGH U.C. (a) Erection of 20 garages, Broomhill Park Road and construction of an access road. (b) Howes & Jackman. 1 Verulam Buildings, Gray's Inn. London, W.C.1. (c) 2gn. (e) April 4.

SOUTHEND-ON-SEA B.C. (a) Foundations and erection of prefab. movable classrooms and incidental works at Wentworth High School for Girls. (b) Borough Architect, 30 Alexandra Street, Southend-on-Sea. (e) April 6.

ST. HELENS B.C. (a) Erection and completion of two-storey block of six flats in traditional construction at Forest Road and Feeney Street, Sutton Manor. (b) Borough Engineer, Town Hall. (c) 2gn. (e) April 12.

STROOD R.C. (a) Erection of four aged persons' flats at Upper Halling and six aged persons' flats at Grain. (b) Engineer and Surveyor, Council Offices, Frindsbury Hill, Strood, Kent. (c) 5gn. (e) April 4.

THANET WATER BOARD. (a) Modification of an alteration to the pumphouse and auxiliary site works at Dane pumping station at Margate. (b) Engineer, 58 Victoria Road, Margate. (c) April 15.

TUNBRIDGE WELLS R.D.C. (a) Erection of 74 dwellings in the North Street Area. (b) Borough Surveyor and Waterworks Engineer, Town Hall. (c) 2gn. (e) About April 4.

WARWICK B.C. (a) Erection of 19 three-bedroom two-storey units, 12 one-storey one-bed sitting-room units, five one-storey one-bedroom units, together with laundry block, access road and nine brick garages, on site A, Percy estate Central Area. (b) Borough Engineer and Surveyor, 23 Jury Street. (c) 2gn. (e) April 15.

WELSH JOINT EDUCATION COM-MITTEE. (a) Erection of a three-storey office block extension and alterations to existing buildings at 30 Cathedral Road, Cardiff. (b) T. Alwyn Lloyd & Gordon, architects, 6 Cathedral Road, Cardiff. Date for possession is end of April, 1960. Completion period of contract is 12 months. Approximate cost: £40,000-£45,000.

WELWYN R.C. (a) Erection of 16 traditional garages with tarmac forecourt at Queensway estate. (b) Surveyor, Council Offices, Welwyn, Herts. (c) 2gn. (e) April 6.

#### PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

BIRMINGHAM. (1) Construction of a passenger-handling building for the Ministry of Civil Aviation. (2) Elmdon Airport. (3) Wilson Lovatt & Sons Ltd., Clarence Street, Wolverhampton. (4) £176,000.

BIRMINGHAM C.C. (1) Erection of a four-storey block of maisonnettes, etc. (2) Edgbaston. (3) H. Edmunds & Sons Ltd., Brook Road, Oldbury, Birmingham. (4) £40,511.

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BRITISH TRANSPORT DOCKS. (1) Construction of two single-storey transit sheds. (2) No. 12 Quay, King George Dock, Hull. (3) A. Monk & Co. Ltd., Padgate, Warrington.

CARLISLE C.C. (1) Erection of a crematorium. (3) Adams & Mortimer Ltd., Whitehorse Lane, Witham, Essex. (4) £30,776.

DURHAM C.C. (1) Erection of the Beds. Davy and Faraday Halls of the proposed campus school. (2) Billingham. (3) George Wimpey & Co. Ltd., Orchard House. Fenwick Terrace, Newcastle-on-Tyne. (4) £639,462. DURHAM C.C. (1) Erection of Lane House School. (2) Peterlee. (3) Milton Hindle Ltd., Peterlee, Co. Durham. (4) £140,000. (1) Erection of a day school. (2) Billingham-on-Tees. (3) J. W. Henderson & Co. (Stockton) Ltd., Church Road, Stockton-on-Tees. (4) £43,984. (1) Erection of a fire station. (2) Newton Aycliffe. (3) Wilsons, Coulson Street, Spennymoor, County Durham. (4) £12,626.

EAST SUSSEX C.C. (1) Erection of a fire station. (2) Haywards Heath. (3) Saunders (Contractors) Ltd., London Road, Burgess Hill, Sussex. (4) £36,480.

EDINBURGH. (1) Construction of an oil terminal for storage, etc., for the Regent Oil Co. (2) Granton Harbour. (3) James Laidlaw & Sons Ltd., Dalmarnock Road, Rutherglen, Glasgow.

FELLING U.C. (1) Construction of swimming baths. (2) Leam Lane estate. (3) Site borings—George Wimpey & Co. Ltd., Orchard House, Newcastle upon Tyne. (4) Cost of scheme: £200,000. (1) Erection of 89 houses. (2) Leam Lane estate. (3) Direct labour. (4) £138,000.

GUILDFORD. (1) Erection of a ninestorey office block for Stockland Property Ltd. (3) Sir Robert McAlpine & Sons Ltd., 80 Park Lane, London, W.1.

HULL C.C. (1) Erection of 138 dwellings. (2) Nornabell Street. (3) F. Bilton Ltd., 87 Wincolmlee, Hull.

**LIVERPOOL C.C.** (1) Erection of 68 flats, etc. (2) Canterbury Street. (3) Direct labour. (4) £125,070.

LIVERPOOL C.C. (1) Erection of a gymnasium and kitchen. (2) Fazackerley Secondary School. (3) J. B. Johnson & Co. Ltd., 17 Overton Street, Liverpool. (4) £40,936. (1) Erection of communal laundry and baths. (2) St. Domingo Road. (3) Hale & Williams Ltd., 1 Heather Street, Liverpool, 4. (4) £50,477. (1) Erection of a fire station. (2) Storrington Avenue, etc. (3) F. C. Bloomfield & Co. Ltd., 71 Almonds Green, Liverpool, 12. (4) £91,800. (1) Adaptations at Cottage Homes to provide training centre for mentally disordered. (3) J. & E. Aspinall Ltd., Signal Works Road, Liverpool, 9. (4) £42,980.

LONDON C.C. (1) Erection of 168 flats. (2) Dacres Road. Lewisham. (3) Leslie & Co. Ltd., Peel Street. London, W.8. (4) £554,836.

LONDON C.C. (1) Civil engineering and building works for construction of a new pumping station. (2) Nine Elms Lane. Battersea, S.W. (3) Peter Lind & Co. Ltd. Romney House, Tufton Street, London, S.W.1. (4) £346,824 and £75,553, respectively.

LONDON, W. (1) Preparation of Marlborough House as an assembly for Commonwealth Prime Ministers. (2) London, W. (3) Higgs & Hill Ltd., Crown Works, South Lambeth Road, London, S.W.8. (4) £200,000.

NEWCASTLE UPON TYNE C.C. (1) Erection of the first part of the new Town Hall Scheme (City Treasurer's block). (2) Barras Bridge. (3) Sir Robert McAlpine & Sons (North Eastern) Ltd., 81 Jesmond Road, Newcastle upon Tyne. (4) £2 million.

NORTH RIDING C.C. (1) Erection of a primary school. (2) Marton-in-Cleveland. (3) A. Robinson (Contractors) Ltd., 423 Linthorpe Road, Middlesbrough. (4) £46,000.

PLYMOUTH C.C. (1) Erection of 24 flats. (2) King Street, etc. (3) Aubrey Long Ltd., 21 Harvey Street, Tor Point, Cornwall. (4) £33,492.

PONTYPRIDD U.C. (1) Erection of 52 flats. (3) Gregory Housing Ltd., 21 Farncombe Road, Worthing, Sussex.

PORTSMOUTH C.C. (1) Erection of 88 flats. (2) Nelson Road. (3) Howe & Bishop Ltd., Clarendon Road, Portsmouth. (4) £327,386.

ROMFORD, ESSEX. (1) Warehouse for Ind Coope Ltd. (3) Sir Robert McAlpine & Sons Ltd., 80 Park Lane, London, W.1. (4) £400,000.

SUFFOLK. (1) Erection of a bacon factory. (2) Little Wratting. (3) W. & C. French Ltd., Buckhurst Hill, Essex. (4) £220,000.

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SUSSEX. (1) Erection of a telephone exchange. (2) Three Bridges. (3) Rice & Son Ltd., Stephenson Way, Three Bridges. Sussex.

WALTHAMSTOW B.C. (1) Erection of 21 flats, 16 maisonnettes. (2) Avon Road, etc. (3) Seivad Ltd., 12 Southend Road, London, E.18. (4) £61,359.

WARWICKSHIRE C.C. (1) Erection of a fire station and brigade headquarters. (2) Leamington Spa. (3) W. H. Jones & Son Ltd., Lockhurst Lane, Coventry. (4) £136,676. (1) Erection of an old people's home. (2) Percy estate, Warwick. (3) W. H. Jones & Son Ltd., Coventry. (4) £55,304. (1) Erection of an old people's home. (2) Abbotts Farm estate, Rugby. (3) A. R. Lane Ltd., St. Patrick's Road, Coventry. (4) £54,385. (1) Erection of an ambulance depot. (2) Dordon. (3) C. Green & Sons Ltd., 132 Monument Road, Birmingham, 10. (4) £20,691. (1) Erection of an ambulance depot. (2) Solihull. (3) Hunt & Pearcey Ltd., 34 Ulverley Green Road, Solihull. (4) £18,406. (1) First insialment of High School. (2) Wilnecote. (3) J. Parnell & Son Ltd., Oliver Street, Rugby.

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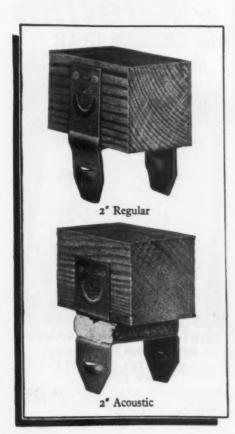
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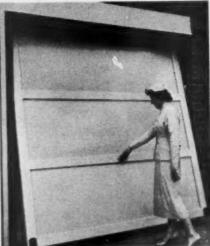
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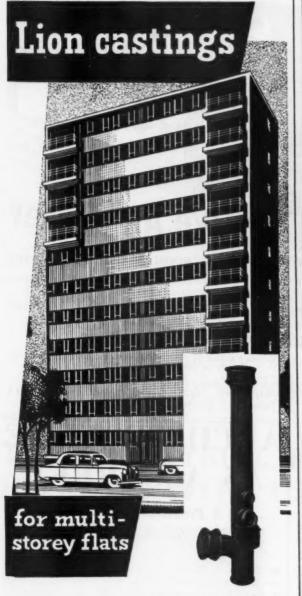
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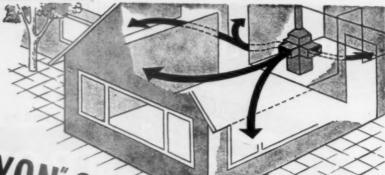
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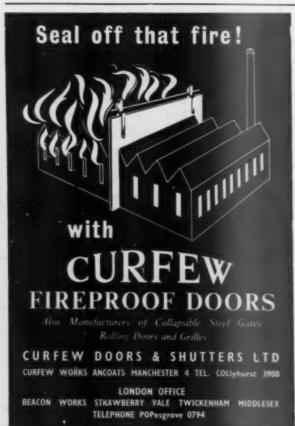
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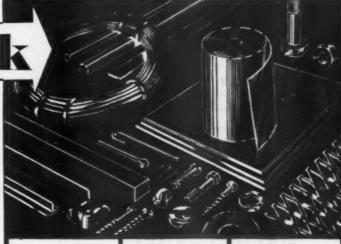
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(a) Senior Assistant Quantity Surveyor. Applicants must be Corporate Members of the Royal Institution of Quantity Surveyors. Salary: £1,050 x £30(3) x £35(3)—£1,245 (under review). Person appointed must have extensive professional experience in the preparation of Bills of Quantities and Final Accounts, Site Measurement and Valuation for interim certificates on Architectural and Engineering protects.

for interim certificates on Architectural and Engineering prejects.

(b) Assistant Architect. Applicants must be Registered Architects. Salary: £730 x £25(2) x £30(2) x £35(5) x £40(1)—£1,055 (under review). Age and experience can be taken into account in fixing the commencing salary. Person appointed must be well experienced in the preparation of 1/8 scale working drawings, details, specification, surveying, levelling and the supervision of contracts.

surveying. leveling and the supervision of contracts.

(c) Architectural Assistant. Applicants must possess the Intermediate Examination of the R.I.B.A. and have had good experience in general architectural practices. Salary: £545 at age 21 or over, x £20(3) x £25(4) x £30(2)—£765.

(d) Draughtiman. Applicants must have had suitable training and some technical experience in architectural drawing. Salary: £445 at age 21 or over. x £22(2) x £30(3)—£660 (under review).

All posts are superannuable and terminable by one month's notice on either side. Applications stating age, experience, qualifications, present position and salary, together with the names of two referees, to the Secretary of the Board, Temple of Peace and Health, Cathays Park, Cardiff, within 14 days of the appearance of this advertisement.

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Applications stating age, details of training, qualifications, experience, present and previous appointments and salary, together with the names and addresses of two referees, must reach me by April 4, 1960.

EDWARD S. SMITH,

Town Hall,

Bury. March 7, 1960.

Royal Institute of British Architects

APPLICATIONS are invited for the post of Technical Information Officer.

The man or woman appointed will be required to implement the Council's decision to initiate a technical information service: to prepare and publish the first pilot series of R.I.B.A. technical notes and subsequently to establish a permanent publication service.

The appointment is particularly spited to the

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The Council may be prepared to assist in the

The Council may be prepared to assist in the provision of housing accommodation. Canvassing will disqualify.

ARTHUR GOLDFINCH,

CH, Town Clerk. [6314

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Canvassing disqualifies.

ERNEST HUTCHINSON.

ERNEST HUTCHINSON. Town Clerk.

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County Architect's Department
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[6308]

#### Ashington Urban District Council APPOINTMENT OF ARCHITECTURAL ASSISTANT

ASSISTANT

APPLICATIONS are invited for the appointment of an Architectural Assistant in the Engineer and Surveyor's Department at a salary in accordance with Grade III or Special Grade, according to qualifications and experience.

Applicants should be qualified and be members of the R.I.B.A., and should have had experience in the preparation of plans, specifications, etc., for architectural work undertaken by a local authority and in particular housing.

Applications on forms to be obtained from

Applications on forms to be obtained from Martin Jamieson, Esq., F.I.Mun.E., Engineer and Surveyor, Council Offices, Ashington, and must be returned to him not later than Tuesday, April 5, 1960.

JOHN KENT, Clerk of the Council.

Council Offices, Ashington, Northumberland.

#### APPOINTMENTS (cont)

D.S.I.R. Building Research Station, Garston, Watford Herts

Garston, Watford Herts

REQUIRES Assistant Experimental Officer to work in technical services section as assistant to Station Architect. Qualifications: H.N.D. or H.N.C. in Building, Salary: (according to age) – £472 10s (age 20) – £670 (age 26 or over) – £830. Forms from Ministry of Labour, Technical and Scientific Register (K), 26 King Street, London, S.W.I, quoting E.110/OA. [6292]

Rorough of Dartford

APPLICATIONS are invited for the appointment of Architectural Assistant, Salary: Special scale (£785/£1,070), and, in addition, a "plusage" rate of £20 or £30 (according to age) will be paid. The successful applicant will hold a senior position and he should have passed the final examination of the R.I.B.A. The commencing salary will be in accordance with qualifications and experience.

and experience.
Housing accommodation will be available,
Applications, stating age, qualifications, and
experience, and the names of three referees,
should be forwarded to the Borough Surveyor,
The Bridge House, Dartford, by April 8, 1960.
THOMAS ARMSTRONG,
Town Clerk.

16297

#### County Borough of Bury

County Borough of Bury

APPLICATIONS invited for position of Assistant
Quantity Surveyor, Grade APT III (£880/£1,065)
or Special Grade (£785/£1,070). Commencing
salary according to qualifications and experience.

Applications, stating age, details of training,
qualifications, present and previous appointments
and experience, together with names and
addresses of two referees, must reach me by
April 4, 1960.

EDWARD S. SMITH, Town Clerk.

Bury. March 14, 1960.

Lanark County Council
ARCHITECTURAL ASSISTANTS
(Qualified—A.R.I.B.A.)
REQUIRED for County Architect's Department with headquarters at Motherwell, on the following J.I.C. Salary Scales: Admin. "D" £1,040/£1,120; Professional Assistant: £795/£1,075. Placing on both scales may be given according to qualifications and experience. Employment offers wide scope in development of modern building programme.

Medical examination, Superannuation. No canvassing Applications stating age, qualifications and experience, together with names and addresses of three referees, should be lodged with County Clerk, P.O. Box No. 1, Glasgow, within 14 days of advertisement.

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Together with the Fixed Machinery, Builders'
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Street, Bedford (2021) and 10 Lime Street, Bedford (66366).
The Solicitors: Messrs, J. Garrard & Allen,
High Street, Olney (215/6).

Classified Advertisements continued overleaf

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Medium.

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#### ARCHITECTURAL APPOINT-MENTS VACANT

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ARCHITECTURAL ASSISTANT, Intermediate standard. Busy London office. Good prospects. Box 3668. [0080]

ARCHITECTURAL ASSISTANT required, with at least two years' office experience. Apply in writing to Thomas Mitchell & Partners. 20 Bedford Square, London, W.C.1. [0916]

ARCHITECTURAL ASSISTANT, London, Final standard. Industrial and commercial, Progressive and interesting. Salary according to experience and ability, Box 3667.

ARCHITECTURAL ASSISTANTS required, in-termediate standard, busy London and Reading offices. Good prospects. Apply Eric G. V. Hives & Sons, 46 Queen's Road, Reading. (Telephone 55484/5.)

ARCHITECTURAL ASSISTANTS, Senior and Junior, required by firm in High Wycombe for commercial and industrial schemes. Scope for responsibility and experience. Five-day week. Write Box 7936.

ARCHITECTURAL ASSISTANTS required of at least Intermediate standard. Varied and interesting work in progressive office. Salary commensurate with ability, experience and enthusiasm. Five-day week.—Apply in writing, stating age and experience, to Schweppes Ltd., Architect's Department, Eastbourne Terrace, London, W.2. [6307]

ARCHITECT'S ASSISTANT required by Consulting Engineer in the West End capable of working on his own on commercial and industrial buildings among engineers. Not necessarily qualified but up to similar standard. Excellent possibilities for right man. Salary range £750/£950 p.a. depending on capabilities.—Write box 7994.

ARCHITECTURAL ASSISTANTS required for busy office with interesting and varied work. Inter-mediate and Final R.I.B.A. standard. Salary £750, £950 p.a. Five-day week.—Apply in writing or telephone Covell & Matthews, 34 Sackville Street, London, W.I. RECent 2291.

ARCHITECTURAL ASSISTANT required by Merseyside firm of building and civil engineering contractors for interesting and varied work in their industrial building department. Candidates should be of Intermediate R.I.B.A. standard or equivalent, capable of making site surveys, preparing working drawings and specifications with minimum supervision and with a knowledge of reinforced concrete design. Please write stating age, experience and salary required.—Box 7992.

ARCHITECT'S ASSISTANT required of Inter/ Final R.I.B.A. standard.—Apply B. Stevens & Partners, 49 Havelock Road, Hastings. [6301

ARCHITECTURAL ASSISTANT of Intermediate Standard required for busy general practice. Write stating age, experience and salary required to Earp, Badger & Harrison, A/A.R.I.B.A., Guild Chambers, Scholars Lane, Stratford on Ayon. [6270]

#### ARCHITECTURAL APPOINT-MENTS VACANT (cont)

ARCHITECTURAL ASSISTANT required imme diately for interesting development work in con-nection with timber prefabricated schools and other buildings both for home and overseas. Staff pension and insurance scheme. Permanent appoint-ment after probationary period.—Write stating age, qualification, and experience with some in-dication of salary required to Box No. 8043, (6304

ARCHITECT requires Chief or Senior Assistant, also Junior Assistant for interesting work including shops, offices and schools. Apply in writing stating ase, experience and salary required to Roff Marsh, F.R.I.B.A., M.T.P.I., 125,7 London Road, Chelmsford.

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BASIL SPENCE AND PARTNERS require qualified and experienced Architects to fill positions of responsibility on a major building programme. Write to 48 Queen Anne Street, W.1, stating experience and salary required. [6228

BIRMINGHAM office has vacancy for Senior Assistant, Busy practice specialising in hospital and school design. Alternate Saturday mornings. Holiday arrangements respected, Please write for interview, giving details of qualifications and experience.—Box 7993. [6293

CHIEF ASSISTANT required May I, to share Administration of Country Practice, Bedfordshire. Design and responsibility for varied and substantial schemes.—Please send particulars and requirements Box No. 8042.

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Senior and Junior Assistants
to work on large central area redevelopment
projects
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DEREK PHILLIPS, primarily engaged in consultant work in lighting and servicing, requires Assistant to help with expanding architectural practice in Hertfordshire, Transport almost essential. Apply stating age, experience and salary required to: No. 1 Bovingdon Green, Nr. Hemel Hempstead, Herts. [6313

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enthusiastic assistant architects salary £1,000 per annum or according to experience and ability.—
Devereux & Davies, 3 Gower Street, Bedford Square, London, W.C.1. DEVEREUX & DAVIES require capable

ELIE MAYORCAS requires Senior Assistants with minimum of three years' office experience in this country. Write, giving particulars of architectural education and experience, and salary required, to: 13 David Mews, Baker Street, W15.

GEOFFREY BAZELEY & BARBARY require additional staff, qualified, Intermediate and Junior, for their Plymouth office, Particulars, including age, experience and salary required, to 15/16 Alverton, Penzance.

J. DOUGLASS MATHEWS & PARTNERS have three vacancies for Architectural Assistants. Salary range £700/£1,000. Group system operated, giving opportunity for taking part in all aspects of work. Graded salary system. Annual bonuses. Pension scheme, luncheon vouchers.—3 Ebury Street, London, S.W.1. [0540]

LARGE-SCALE development in London and industrial buildings in Home Counties. High office blocks and residential flats, Four Assistant Architects required, Senior and Intermediate standard. West End office. Five-day week. Good salaries and bonuses. Box 7076.

ELEWELLYN SMITH & WATERS require experienced assistants to work on an interesting and varied programme of large and small projects. Salary according to ability in the range of £800/£1,200 in return for a sound knowledge of construction and an interest in good draughtsmanship. L.V., pension scheme. Please apply with details of previous experience to 103 Old Brompton Road, S.W.7. Also vacancy in Worcester office for experienced assistants of R.I.B.A. Inter standard.—Apply to 33 Forewate Street, Worcester. [6300

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PATRICK GWYNNE requires an Assistant to work personally with him on private houses and interior design. Must be thoroughly experienced and capable of first-class detail drawing. The Homewood, Esher, Surrey. Tel. Esher 3310.

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SENIOR ASSISTANT required to work on a variety of large and interesting projects. Modern approach essential, with an ability to take complete charge of jobs from planning stage to completion. Salary £900/£1,000 p.a. Apply to R. Mountford Pigott & Partners, 3 Cromwell Place, S.W.7. KENsington 1242.

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#### NOTICES

MUNCE & KENNEDY, Architects and Consulting Engineers, of 133 University Street, Belfast, announce that from March 7, 1960, John F. Sheldon, A.R.I.B.A., M.S.I.A., will be in charge of their London Office at 34 Seymour Street, London, W.1.

#### BOOKS

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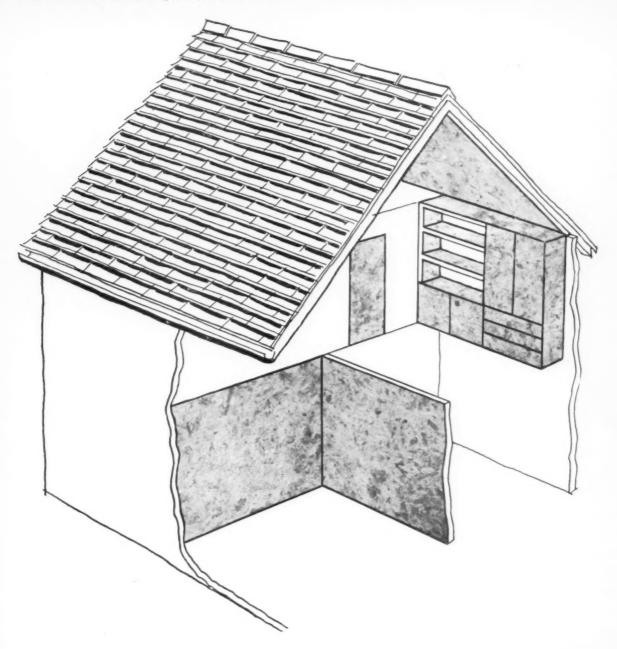
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Associated Electrical Industries Limited
51-53 Hatton Garden · London · EC1 Phone: CHAncery 6822

